A PRELIMINARY REPORT

ON

A MAJOR STREET PLAN
FOR
NEWARK, NEW JERSEY



OF THE CITY OF NEWARK, NEW JERSEY

IMPORTANT NOTICE

THIS IS AN ADVANCE COPY OF THE PRELIMINARY DRAFT OF THE MAJOR STREET PLAN. THE RECOMMENDATIONS CONTAINED WITHIN, ARE SUBJECT TO CHANGE BEFORE FINAL PRESENTATION BY THE CENTEAL PLANNING BOARD TO THE NIEMARK CITY COMMISSION. IT IS, THEREFORE, IMPORTANT THAT THIS DIFFORMATION NOT BE RELEASED UNTIL THE FUNAL REPORT IS RELEY CONTIDENTIAL.

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ON

MAJOR STREETS

FOR

NEWARK, NEW JERSEY

THE CENTRAL PLANNING BOARD
OF THE CITY OF NEWARK

TABLE OF CONTENTS

I

II

III

IV

VI VII

SUMMARY OF RE	COMMENDATIONS		Pages 1 - 5
INTRODUCTION			6 - 9
DACTA DRINATE	LES OF STREET PLANNING		
DWOIG LUINCIL	TOO OF STUDES LIMITING		
B. Dire	erent Kinds of Streets ctional Movements		10
D. Righ	s of Major Streets t-of-Way Widths		11 - 14
	ing of Major Streets ning the System		18 19
EXISTING STRE	ETS		
Stre	et Widths		20 - 21
Vehí	cular Traffic Flow in Newark		22
	cular Traffic Flow in the New Metropolitan Area		23 ~ 24
Prin	cipal Present and Proposed Re Highways	gional	24 - 28
THE MAJOR STR	EET PLAN		
Inte	r-State Highways		30 - 35
Rad	ial Routes		35 - 42
	-West Crosstown Routes		42 - 44
	h-Scuth Crosstown Routes ellaneous Improvements		44 - 47
, ,	Paratroofo Tubi of diserro		40
CENTRAL BUSIN	ESS DISTRICT		
Tref Park	fic Entering and Leaving the ing Facilities	Downtown Area	49 - 50
	Street Parking Facilities		51 - 52
	Parking Facilities		52 - 53
	re Parking Space Requirements osed Street Improvements and		53 - 55 55 - 62
	OPOSED IMPROVENCINTS	an until a men)) - w
	rk Section of the Proposed Pr Connecting the Stickel Memori	al Bridge in	
Prop	Newark and Northfield Road in osed Improvement of Raymond B	West Orange oulevard and	63 - 67
	Morris Canal		68 ~ 70
	osed Extension of Route 25-A Road in West Orange	to Northfield	70 - 71
FINANCIAL CON	SIDERATIONS		72 - 75
BUILDING LINE			75 - 76

LIST OF TABLES

Table No.		Facing Page No.
1.	Treffic entering and leaving the Central Business District.	50
2.	Existing off-street Parking Facilities in the Central Business District.	52
3.	Existing Curb Parking Facilities in the Central Business District.	53
4.4	Analysis of Existing Parking Facilities in the Central Business Districts of Ten Large American Cities.	54
5+	Estimated Future Parking Space Requirements in the Central Business District.	55
6.	Cost Estimates for Approaches to William A. Stickel Bridge, the Proposed Western Extension of Route 25-A, Street and Rail- road Reconstruction on Broad Street and Lackawanne Reilroad and Improvement of	67
	Lock Street.	O1

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September 1945

Central Planning Board of the City of Newark, New Jersey

Cont. Lemen +

We are pleased to submit herewith our preliminary report on a major street plan, being the sixth of a series of reports comprising the Comprehensive Plan of Newark.

Heretofors, many street improvement projects have been undertaken in Newsky. Many of those projects have been extremely valuable in facilitating traffic movements and their cost has been more than justified. Other projects have not been so successful for various reasons. The plant presented herealth can be used as a basis for future changes in, or happing the proventier future attackers.

The Major Street Flan is one of the most important parts of the Comprehensive Plan of Newark. It provides the framework for a more adequate local transportation system. It has been used in analyzing the adequacy of present zening districts and is most helpful in neighborhood planning.

The plan has been prepared from all available sources of information and we have enjoyed the most helpful cooperation of the City, County, State and Federal highmay officials. We wish to express our appreciation for all such assistance.

Respectfully submitted.

HARLAND BARTHOLOMEW & ASSOCIATES

By:

SUMMARY OF FINDINGS AND CONCLUSIONS

Post war traffic in Newark will be greatly in excess of present or pre-war volumes. Conservative estimates indicate that within five years there may be an increase of fifty pur cent. Motor vehicle registrations in the Newark Netropolitan area in expected to increase from 35%,000 (19%0 figures) to 533,000 in 1970.

Howark's traffic problems are serious but they can be colved if a comprehensive and coordinated program of street improvements is carried out jointly by the City, County, State and Federal governments. The basis for such a program is contained in this report.

I Street improvements to be undertaken by the City of Newark should be made part of a long-range improvement program covering
all capital expenditures to be made during the next twenty-five
to thirty years. This program should be closely coordinated
with a long-range financial program. Additional financial assistance from County and State sources will be required.

A comprehensive plan of parking facilities in the Central Business District should be adopted and carried out simultaneous ly with the street improvement program. This program is summarized as follows:

1. Supplement present parking lots and garages by providing additional off-street facilities for shoppers and other persons having business in the district in the form of open-deck type parking garages located as near the center of retail business as possible.

- 2. Augment the above facilities by constructing an underground parking garage in Military Park.
- Provide additional facilities for all-day parkers and persons transacting business downtown by means of parking lots located along the distributor streets skirting the edges of the business district.
- l. All off-street parking facilities should be privately operated. The City can assist in carrying out the properably acquiring property be condemnation and leasing to private operators at a rental sufficient to retire the necessary bonds and pay an equivalent of full taxes on the property.
- Install additional parking meters on streets convenient to rotail shops where unmetered limited time parking is now in effect.
- Extend "No Parking" restrictions on streets where roadway capacity is limited and traffic is heavy.
- 7. Strictly enforce all curb parking regulations to insure utilization of off-strest facilities and maximum turnover of spaces.
- License all parking lots and prescribe minimum standards of size, location of entrances and exits, surfacing and fencing.

Following is a brief digest of the principal recommendations for specific improvements. No cost estimates have been prepared and the suggested program is tentative and subject to revision after completion of the long-range capital improvement program.

1. Following approval of the report by the Central Planning Beard and the Citizens' Advisory Committee, an official map should be propared, on which all future streets and street widenings should be shown, thus establishing building lines within which no new buildings may be erected. The official map must be adopted by ordinance enacted by the Board of City Commissioners. The following projects are of immediate importance and should to undertaken as quickly as funds can be made available:

(a) State Highway Improvements

- (1) Complete Route 21 (McCarter Highway) through City of Newark.
- (2) Construct William A. Stickel Memorial Bridge and its approches to Clifton Avenue.
- (3) Construct Route 25-A Pre-way connecting the approaches to
 the Stickel Bridge at Clifton Avenue, extending westward to a connection
 with Northfield Road in West Orange and eastward to the Lincoln and
 Holland Runnels.
- (h) Construct Boute 100 through Port Newark to connect to Lin-
- (5) Improve the Nowark approach to Palaski Skyway by widening Foundry Street underpass.

(b) County Highway Improvements

- Acceptance by Essex County of the Mt. Prospect, Clifton Avenue, Morfolk Street, Jones Street, Belmont Avenue cross-town route as a county hishway.
- (2) After acceptance of above route construct connection between Mt. Prospect and Clifton Avenues at Elecafield Avenue.
 - (3) Widen Norfolk Street between Orange Street and South Orange Avenue to 80 feet.
- (4) Widen Bloomfield Avenue from City Limits to Broad Street to 100 feet.
- (5) Acceptance by Essex County of Broadway between Bloomfield Avenue and Broad Street as a county highway.

(6) After acceptance of above route widen Broadway between Bloomfield Avenue and Seventh Avenue to 100 feet.

(c) City of Newark Improvements

- ic.r and improv lock Strait total, n Suss x Avinu and here: ir *, including a paration of crait at Control Avinu. (Contrative Should: env. to making this improve and a but he thray project).
- (2) Widen Aster Street between Clinton and Sherman Avenues to 100 feet.
- (3) Widen Springfield Avenus between its junction with South Orangs Avenue to Market Street to 100 feet.
- (4) Improve Raymond Boulevard between Lockwood Struct and its intraction with erg t Str. to craving the right-of-may of the Furnic Canal.
- (5) Sicure necessary logislation to permit the City to acquire from rily for purking lots and purples. After Legislation is sent d, rest at with privat operators for einstruction of recommend a loss and paragos.
- The following projects should be undertaken within the next five to ten years.

(a) State Highway Improvements

- Construct Route 2L Freeway generally parallel to Springfield Avenue.
- (2) Construct naw high-level bridge to replace present Jackson Street Bridge.

(b) County Highway Improvements

(1) Complete north and south crosstown route composed of

Avenue between Poddie Street and Watson Avenue to 80 fest.

(2) Widen South Orange Avenue from Ninth Street to Springfield Avenue to 80 feet.

(c) City of Newark Improvements

- (1) Widen Mulberry Street between Market Street and McCarter highway to 100 foot.
- (2) Widen Central Avenue from High Street to Broad Street to 80 feet.
- (3) Provide a new 80 foot connection from Park Place and Center Street to Mulberry Street.
- (L) Connect Plane and Fishington Streets between Court and Saldwin Streets.
- (5) Widen High Streat to 100 feet from Bloomfield Avunue to Orang Street.

(n, Construct a nichay ov r the orris Canal from First Street to Hollor Parkway.

- (7) Construct a new connection 80 feet wide from the inter* :tion of P analylvan; Aven.w, or assure and South Str its to Minton
 Avanu. at Washington Street.
 - (c) lomplet an improvement of Reymond Boulevard of the on lockwood Street and Mark t Streat by loquiring property between the Morris Canal and Raymond Boulevard for park purposes.

INTROLUCIIOP

TA TO OPTION TON

A well planned modern street system is essential to the welfare and presperity of postwar Newark.

Public streets are the most valuable assit any city possesses. In transer at the provious means for circultion of traffic formance in the ard for access to all property. They farmer first and air to intting one prise, and in these relocated to various public weights in that make websall for possible.

They not only provide means for access between all parts of the country, out by in ir corn ctors to tr. Stat Hismany system, they furnish means of communication with all marts of the country.

A well designed street system must provide easy, safe and convenint occasion is sidential, communication indistrial sections of
the city from all parts of the city and mitropolitan as a. Such as
eyest citil limitation remains training traffic composition are not not to beta for motion a belief und for pad strians. Closely associated
with measurized size a system is the received of adjusts off-streat
parking facilities. In communical and industrial areas, such a system
will minumis, the dungrap effects of heavy traffic in residential distrains by cransolizing such traffic on size at swhich corry it around
those areas.

Bossuse of the difficulties if keeping pace with the rapid develour nt of the submerbile, no American city men solved its traffic problem. Seat city of struct systems one lead out o for extractiles may were thought of, and one schoolishes, the putter is rest difficult . cost, to charc. Index the street system, a sofernize, in accordance with property and ("wire traffic needs and as part of the copperative in the bolim, the community, stagnished will take place, secontralization will be accelerate; and property values in the central ireas will contains to confine.

The ripid exclosion of the automobile has hid a far that did effect of it, development, and has midded the potential area of which exclosions in the fines, or in the rights to a radius of 20 miles or more. This tre centralized city still resums the nest recommidation secund form it and structure, the tradition of all large urbay communities has been serifully tripated; it to continued area, of militar into the sub-urba. So long is into economic exist it to central city, this trend will on these. Lace of accessibility in the minimipal has ness sections of bring assume accelerated the decurralization of substances much raturally follows the suburbay of spenditure. So those disterioration of property viles in the consist area is inevitable miles effective each and parking facilities in the downtown district.

One of the reasons for the spread of filent torons the close reada till arous is because triffice to discuss of the close triffic and read read of the common are remarkly profetched in an active and anion are not desumed to carry heavy traffic. Spread-common that the pread sajoraty
of triffic out a decommon dated on less than one-fifth of the total street
nullage in the urban area provised such streets in inservend so as to facilitate fruedom of recement and operational self by. Such streets smould
have a value surface, circet alignment and should be so located as to serve
the largest number of potential uses cost convinintly; these relatively

faw .tr. to are known as Major Streets while the rist of the *noroughfares comprised in the system are known as Minor Streets.

This is part is concerned with the design and development of a major of the for Newark. The spacing of major interests is such that the notation lives in the constraint of the configuration of the c

We ware not come almost interely politically non-comparatively little recognition growth our to graceted in the fuller. The freely missioned itself the force, into improving mission have that is each protecting room at an and gradually a vering the gineral tone of the ancae community. En outcome of the control of the community of outcome of the control of the cont

inium.co is tr. pr sert struct putt in in an firming established, from a practical etargooint, it wall be not searly to use it as a basis for the per line. As it is most difficult and expensive to increase the triffic capacity of the existing structure for to provide new structure in outle-up area, the momentation represents a planned to be extructed twice a long period of time, and it must be empt to ay coordinated with the city's long-rang financial program. Since the present struct system as not adequate to me typesent traffic requirements, the plans are proposals of this report, in addition to providing for future in do, must correct existing imadequacy.



A. Ther Must be a Diff rantiation Among Streets.

refore the advent of the automobile there was little need for streets;

infirst autom, loss draw, wanceler twiffle fraveled at also et a

inter and little street commender. The produce of along member of

towerler a cross to for at datifirst interior, by my inter
tion case instance. While a safe teasand noise the arms too towing

interior as its other, and who are less and noise the arms too towing

interior of land in any cate, as if for sanctual purpose. The tre
sense of traffic on avery street cruated massands and made the area less du
interior of cital interior for any traffic, the story of vincations we
refer all increasing one in mail portion of by total street along

interior acts to true to a soll by for leaf acts. This tip

As and o protest if from some and during this lift restriction may

street is the first basic principle of street planning.

B. Three Directional Fovements Must be Accommodated.

The major sing to must accommodate the various direction 2 with and of traffic.

I sould 'even.nt. The major traffic movement in any large uroan area such as the .f from plue suffrance to plue of employed at the control harmoness district and nearby industrial areas being the major objective of traffic.

Although the ploof is to expense a vector to the private of the control to all portions of the urban area are essential. Radial traffic has three

traffic advanced to the central areas of the city, some traffic from one for it actiff advanced to the central areas of the city, some traffic from one for it actiff and in actiff acti

. Six Types of Major Streets are sequired.

These many diverse functions and the amount of expected traffic

- a ... to invention a sk today Cambillations of more weet a
- i. Intor-decomplet. These are more the interest of the second of a control of a con
- 2. Madial Streets. ... se thoroughfares are the most important part if the educ six is system. The six community and is the education of the six of the father than sections. ... it is interesting the father. If the education is a point in the content of the six of the education of the education
- 3. Circustrentia, possiverds, directforestial to sever; see extreme, figertant. As the cat continues to read expansion useful-ASSA stall increase to such an extent that they still of the ansatze to such an extent that they still of the angle street ejector. The value is increase to such a street ejector. The value is increase that in other

- A, drose-toen streets. Orose-toen thoroughfore provide for movement obtween residently sections and also serve as out, is or feeders for the previously described types or agor streets. They distribute traffic wathin the areas obtained by the observation of the factor of the streets and in this manner serve as supported to the streets and in this manner serve as supported to the streets of the
- c. <u>sistruputer offeets</u>, unstruction strict as and those of a control of the con

natrii dion of traffic within this district. Jurrounding the b. ne the trick with wis district or traffichays permits vehicles entering the Jimtrit it use there thoroughland as an approach to the puritouser street that permit the nost direct entry to its distinction within the consorted open. They also assist in preventing unwarrunted scattering of the central area by providing the archite boundary. As the business district equals, these troroundarses became exceedingly important and it is sevential that which thoroughfares desired to anequately privide for acticipated traffic flow we furnished in or new to court I proper traffic distribution and growth of the business district.

Farkwayr. Findsa, are always to iracle parts of a city's jatem of traffic thorounfarme. They are supplementary to made traffic movement, as a rule, being primarily seligned for pleature and recreation, but they can otten serve both purposes althout serious interference. Where existing development will not make the cost accessive, an important major street could well be designed and horowed as a parkway. It will add greatly to the adventues of the city, to the enjoyment of the large number of users and wall conserve if not enhance property values. This matter will be given further study in connection with the Park and secreation plan.

D. Right-of-May Wight Controls Traific Capacity and as a Primary Concern of Street Planning.

Ine parents of the street can be widered or even narrowed without read difficulty. However, once a treet right-of-say is acquired and builtings erected along the street, the right-of-say can be widered only after read difficulty and expense occasioner by the consequent injury to ingrove property frontum along the street. Because of this, the major plan is concerned primarily with the acquisition of sufficient right-of-way winth ry remarks the state of the provident. Litt. Length installin or inlater of integral-of-way that it too marks. Comparison within great control wildowing a right-of-way that is too marrow.

In the correct which ever traffic cross of the first and traffic into the observed, the use in separation force traffic into individual of the correct of united and the correct of united and the correct of the ever carried as 1.00 cars per norm thereof is not in the relative of the ever carried as 1.00 cars per norm that ever in the correct of the ever of the ever in the law one correct of the ever in the first one of the ever in the provides for four noving and two parsen lands. For energy, the maximum that the action of the ever in the second of the even of the second of the even of the court of the even of t

The charact r and which of poverints in a erry on income the rain to salt to characterists of traffic over at uniqueness. For expl., income its attack at the characterists of a control of any or real traffic can be lived in the traffic can be lived to the characterists of a control of a con

With a few exceptions, the proposed major streets in Newark would be in r' or P lane teoroughfures. For an P same passes nt, i ri its few; f at east lk f' tis sential. This would provide for an ultimator restay of ... If to 16 feet and animum sidemals of .2 feet. ... on a to ro. "' regre i ve. poir stagge. In the lirest stage a poleof ... white could be construct .6. at to ro and lifet grass pleas on. 12 fe this wakes a traplanting break in each said. In state accesses an earlied one sent a dittendar rowses apace, the curbs could be stocked. In the construct of an animal time a pace this bad for the new average. In some cases it may a case and the first attendar to what it with the results. In some cases it may a case and the first attendar to the first attendar to the first attendar to the first attendar to the first attendar of development.

The suggestion revelopment of 80 feet major streets would permit an attack parket. It is not not to the street of the street of

In a 1-urban and rural ireas, the triffic f. wwil, not requir to waste twickets occur in the revil, iv.cop.1 urban draw, so ver, in all important labrances, there alone on a central park strip dividing the opposite strains of traffic. Indica speed in these ireas in history conservations, significations of traffic appearance in a real in model for irrainance entire adjust, but of the mightesy to the topography. Iv. How the traffic is limited in the outlying areas, the right of way smalle or win it. The a fairly heavy travelled highesy requires a minimum right of way to be first an initial divelopment of the 22 four relacings.

separated by a 49 foot park strip.

interrined on apression as a real no fair rest.

... proper of or all or place at a real no fair restriction of the control of the restriction at the company of artivals.

... property of a restriction and interesting of artivals.

there is dissent and construction.

In a few instances secondary streets of 60 to 66 feet any bu of sific. ...th. this nature of 5 to 4 feet any bu of sific. ...th., nls or lim if towing, while sin account cition, it may but a afficient till for cital, strike servin lock restance. Section where traffic assends will never be great.

Assiness district streets should normally nave & land or 6 land or

icro, and to the nature of cultime as a line and all and many find the truly to the truly as Son of for always what then in order as a intensity of for retail business, banking and office buildings,

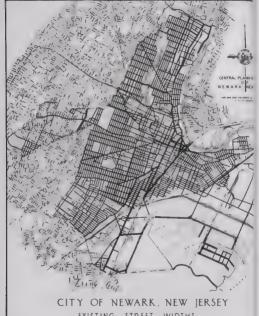
Spacing of major structs bust be scalted to repulation unsity.

The traffic flow on any street is usually proportioned to the population density of the area served by the street. Through traffic could be an extracted to the traffic flow of a seas, writer, the street flow of a seas, writer, the street is approximately flow of the angle of the area of the street is a spring of the street of the city is approximated and the density of population becomes greater. This is a perfectly natural mechanism.

a major consideration of planning major streets must, then, be a sold to account of the protect. If the pattern of partial is a reported to it is a street and a sold of the account of the property of the property of the sold of the so

dedial streets are relatively for apart at the outskirts of the city and clevery size in center. Physical Lettiles sense typography or large open areas such as parts, contern to relarge institutions influence in in not and accition of trincipal streets. Prossel at introduction of trincipal streets. Prossel at introduction are smooth developed from on the terms are specific to arts.





EXISTING STREET WIDTHS



- a triffic espectly of eight or more lanes. There are a fig streets having a conjunctly of 8 to 10 canes of traffic, but, in many instances, this attreets or is lated and do not fine at injectiant part of the circulatory system. For each, but measures, streets also but not not heard have preserved before the case of the part of the traffic three-story system. The city is fortunate in market into the fire three-story system. The city is fortunate in market in order of the traffic three-story system. The city is fortunate in market order or the continuous thoroughfars such as a serial street, and it is not a significant white, wark the star is a set as further aware, ware the star in any one is accordant.

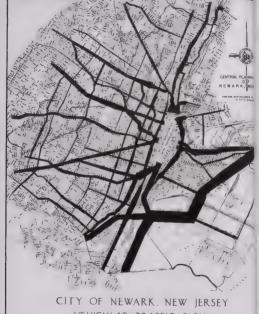
volumes of traffic

The lack of past planning is clearly shown in the inadequate which of meet of the relationship from the sources are as to the entering part of themse. Bloodheld avenue, Springle li Avenue, out. (ring avenue) is simpled Structure. Associated with located structure. Associated in such chappers i becaute of insignational width. It is interesting to not that in the case of Springle is davent and with Original transfer is the substitute of the city than not a country the free first account the interest of the city than not becaute the interest of the city which is a very real results that locate them. In the first of the city which have some and additional which do not compact with structs loading to the control assesses district.

The typical Nomers block is 2.0 x 4.00 feet in size. The presaling strict last fact, the in any fortunal into city for a 1..., to no uniformly tatevor. An only possible to stricts in to contemporary to the city may not sense in the full conformal in the nonly man for city it acousts generally cost may to lay out stricts maying rights—of-way of 50 feet.

in ordering covering sposs the absence of account, continuous
and wise north and south thoroughfards. This is a deficiency which must be
receded in the future.

The enemy also among the fire of physical contraction on the street system. The rame twants mattered and to lackscamms faultood introduced party is another physical error to it. In ecommunic tion in a set and wist direction in the morth in part of the city. Sint playsical barriers are inequality Park, Pairmonnt Cunt from evolution is about it.



VEHICULAR TRAFFIC FLOW

In entrol to tracing smooth, results of implantal and not not not perfect extent of the trace of t

resource Teiffic From in Newson. Flat a secto response day vised innovating flow mann assists, removes only of the interpolation of any proceeding to man, findership if into insight of chains from the current Traific only and optional only who i 1955, and octable of the processing and the consensition with the Fourse Teifficht of the consensition with the Fourse Teifficht of the consensition with the Fourse Teifficht of the consensition.

The width of the bands on the drawing shows the total 12 hour (7 A.M. to 7 F.M.) week-day traffic using the streets in Newark.

The dominant traffic rits are thosen to be with Highway 25 and that alignary 25 and that the obstruct in southern includes in one of the city. According to the traffic asing this recurs is entoured to the force and other accommendations and a large proportion of it is commercial tracking. As an equally large volume of truffic in sound others. The radius structs approximate ing the formation area in a valy traveless; for many - Central at m. accommendate a approximately 27,000 v. and he provide provides and Joseph Crange, approximately 27,000 per day, with a south of the first value and other than a south of the control value and other than a south of the control value and and the control value of the control value and and the control value of the control value and other than a south of the control value and and the control value of the control value and value to the value of the control value and value to the value of the control value and value to the value of the control value and value to the value of the value and value to the value of th

Stantia, portion of the congestion whisting on wirthings, and avenue a substantia, portion of the truffic bound for the central passiness district ways that street and proceeds on avon. Flinton and which we have to in these section with around off at. Similarly, traffic intring the city of Fark after 00.8 not proceed over the last direct risk, but also pressible of over 5 for a string Biominia again and opposed Struct.

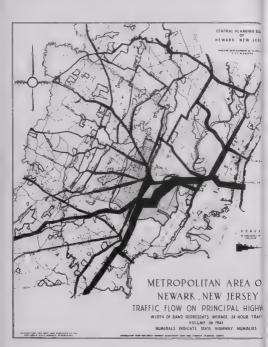
The drawing shows where bottlemecks now exist. For example, it line may now the distinguished the first state of early it, it from the outline of a conject connection to dinton as now. It is now the notion of the north Arena, and providers times about a click on the north arena, and grant width of him of the off bloomfield Arena, is clearly apparent.

. . .40% f .12.41 north and south thoroughlar . Also is shown on the drawing.

Injuried Treffic (1) on the second actropolitar area. For 3 choice the 1962 volume of traffic flow on the principal stat. High-size attention to Newark etropolitan area. In whath or wand represents to to the number of windless attention area of the comparing the state of the comparing the

Litt Higman, 25 (F dured digment ho. 1, is on of the both in July View 1 thorough it is an inthe country. The portion of the algebra when it is first anti-remain of the Newmark airport and the Plandar digment of the mark of the mark of condary and notified airing an average 2, hour period confort in mark on oundary and notified a volume approach s lox,000 venicles, about of this traffic is bound to and from her York in the first in school of pages carrying this traffic are and the outstarts of Kemick.

After crossing the Passauc miver, the major part of the traffic



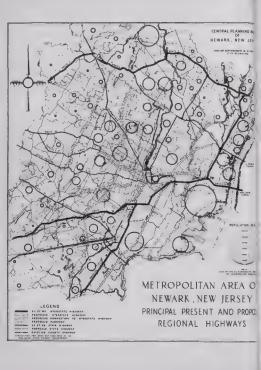
Stat. Highway 25 which joins highway 25 at the Nowark Airport. So carri wour fativity airgo volume of triffic. Approximately 3,000 automotile we toke highway daily bitwien its intirection with little fishway 5-24 and Highway 25.

Other of it no manys method ar largely used included this this, may 2, correspond to a volume, with a signary of and its continuation over Escondial day now, and State dignarys than 3 anion like the south of boomer. South Jrane Avinus and lark avinus thick load to boomer from the watern subarbs or not block dignarys set they are it squee importance in the arrepolation dignary system. It is intericting to mit that Bout 10 traffices or in Site is relatively about ranging from 5,00 to 1), but vanices parally at the newly of points. This would indicate that there is not appropriate to import proposing in a forth extension of doubt to as a company further for some tips to come. It is not no importance to improve Distinct facilities that in, directly to the conformed of a conformation of the proposing and in a supersymmetry of the proposing and adjusted by most of the proposing and are adjusted by methods of the proposing and adjusted by a specific of the proposing and adjusted by a sp

ir neipal br s at and Proposid a glocal dight ays.

That ... one as present whit. Ingraves and the proposit at majors an connections. The drawing also indirect of the population of all of the ... Approximations in the Mark multropolitan size, the size of the circles being in proportion to the 1940 population.

There is highways in the Nowark area which for a part of the hadional interpretate our ways system. These in State courts 25, 25, 1 and 6.



In .1. was this maghanys by-pass N. ark. Houtus 29 an. 15 .1 to th
. An of two City are pass turbun in . .eturn industria. If he would be normall letter medica River and is a continuation of news 25. Houtu

The enief entructurable of the state Highway system in the Jack or is the mack of rut of stand through the unbounded of the standard that but to train the standard that but to the standard of the standard that but to the standard of the standard that but to the standard of the standard that but to the standard the standard the standard that the standard that the standard the stand

In order to runsdy the above deficiencies, soweral new proposed Stit him ayour or all months aroung, in of the rost important of the country of the state of the sta

It man be not a that the cimmay will provided as of the control was a vird and the ware expectites the discool Tana. In mattern was extend. It construction and ask it possible for this sylvature of the control is a proposed for of May Fare extensity one is a and it what the city is for, to the Nower expect in approximately fifth a maint.

The paint it are so in control to the foliana Tana it will be partially to the November of the foliation for passible to be gardinated as your way to the language as your way to the page that it is approximated to be gardina and Idential Filles in New York.

Rout, 100 is at present legislated to cross Newark Bay and proc in orth sutarray, syone, but we not still oversus as in orthant that in organize should be regular or product of its location as shown on the plan.

In order to remody the lack of direct communication to the interth state and responding place hours, to propose if the route of a show on the plan. The first of this proper of the control states of a read constant remains from order if a social state of the control of a read to the notation and testion with the proposed seat the same doubt. In or the Tornell circl in Jrsy City. This routh is designed as States the many Asia. It is no titulate outher a Jrsy Diterns difference in the Fit of and A, on the rout is discussed to large in those sections of the property Asia. It is no a rout to the introduction of the sections of the property of the property of the control of the section of the property of the property of the control of the property of the course from the course of the property of the property of the course of the property of ment. Its construction will obviat, the necessity for the widening of openinfield avana. This is definite location for this routeness not we have a first about a generally located as shown on the drawner. Firster, and the first of the report. Another feeder rest to the interest. System is not 21 the article, in many which connects the proposed Boot. 25-a with most 22 the article, in many which connects the proposed Boot. 25-a with most 22 and 25. Originally this highest was designed as in 1 vitual structure and suffice in right-of-way was required to child it in this cannot. Otherquently, plans are changed and the highway is now to be cult of first. In later agency department as withing the real-way thoughts for the root which prefixed the relativistic of the Neck and its northern at insign from Clay struct to not. 7 is one of the State's immediate postwar projects.

In order to remedy the lack of edequate north and south routes through the Newark autropolitan era, in stat. Highery department propose to construct houte, a see paramy from an intersection wath noute 27 in family to an intersection wath state of the seaso county. Two elections have been proposed both of which are shown on the living. The first location would not interpret them County to Irvington and the new rould proceed north through Newark, best Grang , Bloodfilla, Girm edges and 'ontowarr. Location of this route has a nander study through the invasionant point north. In plan saggests while from the point north. In plan saggests while fration brikery, through Newark and met Trange. In ord rice there is a fixed the rateal is in those two communities.

Its ait. mait for this proposed pracy will stand around the wistern edge of the Howark are utilizing easting strong will as who."

possible and passing through South Mountain Reservation in st Orang .

Thurs are several proposed consections between existing State
1, may remove onth Grawang. On of the is a complition of Bout t at
t : sail and ass a Counti . line no another is the connection of C-3
. 1986 to Passic alt i in wiften and are n lount. In third of the
completion of KoCortor Highway in Newark.

Three important County highways which are a part of the rerelate 1 are 9981 of 1 of this law no free Varant rowates Neural outh arm as no a dam to have from the at and hortafield desifted its introduction with noute 1 in asymmetric factor from . Then in the improve act of the act heavy a series of the sylvation.

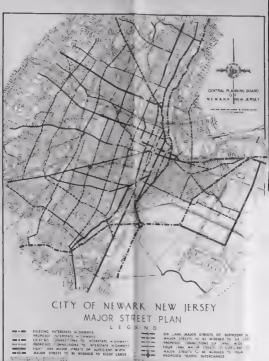


LAJOR STREET PLAN

The proposed & Jor Street Flan for Hemank is snown on Flate 5.
That is a long-range plan designed to be carried out ower a period of from twenty-five to forty years. Some of the improvements are of improvements the total provide important and should be executed as soon as possible. Other improvements can be made from time to time in soon as possible. Other improvements can be made from time to time in a soon as possible. Other improvements can be made from time to time of the original of the long range present of public improvements. The case time of this plan chould not involve substantial cost to the City over and abov, what would be not involve substantial cost to the City over an abov, what would be not involve substantial cost to the City over an above the city of the city will derive great annually so in accordant like to Street Improvement. Program with the Major Street Flan as it is designed to vestically correct provent deficiencies and provise secontial facilities for future traffic.

The plan indicates where local, state anifer religious should be expended in the Kwark area to the greatest advantage of all. While Rewark must provide funds for execution of the street improvement program, it can and should receive substantial financial aid from Emery County, the State of New Jersey and the Pederal Government. The traffic problems in Newark neve more than a local significance as many of the main thorougherage connect with the County and State Highway systems, and there are mumerous City streets which are on the County Highway or the State Highway systems. The plan, increfore, is a guide that can be stallized to instruct the wise expenditure of highway improvement funds at all revoke of Exempton. It should be accepted and adopted by the State and County Highway officials as well as by the City of Namer.

In developing this plan, it has been necessary to consider present and future highway needs of the satire Newark metropolitan area. In



th lower, of an official own-all planning eyes (low, both of the temperature) with introducers and architecture, the Essec County Engine s, to State Highway Lopartount, the Enginear Plan As contains, and try Fort of Now York Astronity to injury that the Massic plan is properly coordinated with other highway plans for the area. The plan has also our coordinated with the Housing plan, the Farning plan for the common business therrict a site Common Land Heat plan for the Otty.

Where r person, setting street may been and for to born of ... propose system and not contain and at an as to print . The containty and in cities. Str. to only, not our key to a management of estimate with filter notes in a more force that with filter notes in a more force of the process of the stabilization of note outing lines. This procedure will relate to contain each of reports acquisition by insuring to tail not buildings all notes, distance by the struct widening program.

A moscription of the recording continued in the comprehensive plan follows:

Inter-State Highways:

Recent traffic counts have snown that in greatest problem of traffic convection of fairful nignacy exists an our large urban communities. Research the largest city in New Jersey is the objective of a large ascent of traffic of neighboring communities, other parts of New Jersey and adjoining states. This traffic appreaders the City over rescalely adequate State regiments and then is forced to as the City streats system to reach the State of which it is going. These city streats are encambered by local traffic, by trends times, and in many instances have inadequat which. As a result the center of the City where most of the retail shopping and general

points in contact it atrum by in or souble. From all directions fairly beautiful freibties exists for by-passing treffic norms, no business in the City, but littly prograss his but made to facilitate the free movement of training from various points within the Nowark urbunized ends. Modurnization of the nirms system is a translatus task. It is the responsibility but also of the City of Nowark and other local communities, but also of the County, State and Pederal Governments.

In recomment to urgent no offer improvement of feweral nighterys within extropolitan instructs, Congress has recordly made substantial funds while to be used to the vertice state highway experiments in modernizing urgan nightery systems. It is the objective of this logicalistic to provide a matrice wild system of interests highways connecting the context responding principal cities. These connections in to be modern grace-operated highmays behing from the outskirts to the ongested areas of our communities. It is proposed that those family be expensed on a relatively f we such facilities rather than in making expensive corrections by occase of widening existing streets.

The streets comprising the inter-state nightly systm are concillly freeways designed to facilitate the free movement of traffic to and through large urban areas so that it will not conflict with local traffic and be abject to delays and denotes now incountered on surface streets.

While the responsibility for the construction of inter-state nignways lies with the State Highway Department, the location and extent of such improvements are of vital concern to the local communities and such planning should be a joint uncertaking between the local planning officials and the appropriate County, State and Federal agencies. In which, inter-state highways and their creation connections, so or tivide. Connections in the same of all the same of a state of the same of th

There are three existin' inter-state highways in the Newark arcs: lists h. may 25 enter extends through the southern and existent part of the City to the Polaski Sayway leading to the Hollani Trunal. This is essentially a Depass route for through traffic along the Sestern Jeaboard. Accress to the City is provided at several points such as Raymone Bollevard, Press Street and McCarter Highway.

Just: mighway 27 is located south of the City and joins Highway 27 at an intercomnge near Newmark Airport. This mighway is also a py-pass 1 ading traffic destinat for New York from the west around the main part of the city.

State highway 6 is north of hemark and provides access to the George Mashington Aridge and Lincoln Tunnel for traffic originating west and north of the City. It is signational to note that none of the above three interstate highways connect directly with the center of Newsrk,

A Fourth interstate highway is planned in the Newark area to re1. we righway is. The proposed new highway is known as State Highway 100
and it planned to run parallel to Route 25 from the southern part of the
late to Newark. This new highway will conform to inter-state nighway
standards and in planned to connect with the Lincoln Tunnel. It would organ
the Newark Meadows between the Airport and the Seaport and would reach a
propose! Nuture interchange structure in the Kearny meadows, north of the
Passaic River.

The Frincipal nees in Newark for new hismays is adequate connections to the system if inter-state nighters accessing above, before more bypance are empiricated, facilities should be provided for traffic to reach the center of the city in a free and expeditious manner. To accomplish this suppose the plan provides for two future freeways:

The first of tress proposed highways consists of the extension of Moute 25 - A from the proposed new William A. Stackel Memorial Bridge across the Passaic River to a connection with Northfield Road in West Orange. This approximate has been indee discussion for some time. It is more fully described in another chapter of this report. Plate 9 shows the proposed iccation and design of the nighway between the new Bridge and the western corporate limits, and Plate II shows the entire route extending through Newark, Dast Orange and Orange. This is one of the most important improvements proposed in the Major Street Plan, and its early construction by the Sista Righmay Demarkment is urwently meaded.

A somewhat similar facility is planned in the southeastern part of

the city is traffic intercomange between downtown hewark and the scatnewestern cub. At such as Irvington, Maplewood, Milbarn, Summat, Springfield, etc. No attempt has been made to recommend a definite location for this proposed freeze, but it generally should parallel Springfield Avenue (State Route 2m) from a point in Maplewood to a point near Berger. Street where it would present in an easterly direction parallel to Kinney Street to a connection with McCarter Highway. This proposed facility would be a grade separated increasing reparallel elevated and partially depressed depending on the topperpay. Connections to the freeway should be provided at points where crossing major thoroughfares intersect. Connections to streets leading to the control business district of Newark are shown on Plate 8.

There are two twier highway routes which are classified as comnections to the inter-state highway system. McCaster Highway when completed
as 1 extend along the Passaic River from the north to a connection with
Radit 25-A at the new Bridge and to Route 29 and Route 25 at the Newark Airport intercoange. This improvement will not be in the form of a freeway but
will be on the surface uccept for that portion which is elevated over the
Petnsylvania Railroad tracks south of Pointer Street. Part of the highway
has already been constructed by the State Highway Department and its completion
is schemuled for an early date. The proposed improvement includes widening
of the roamway along that portion of the highway which parallels the Pennsylvania Railroad elevated tracks from Pointer Street to Lafayette Street and
the widening of the nighway north of Clay Street to a connection with Highway
7 north of the nith.

The other connection to the interstate system is the proposed Route

Farmany extending from the southern part of the State through Newark to

Houte o north of the City. A definite location for this highway has not yet

r . . it rain i and two alternate routes ar shown on the plan.

The first of these routes would utilize Oraton Parkway to Irrengtor, he was and fast Jorng, while the alternate route is west of hemark and is not in me, on the plan. This proposed improvement is the peal limited access peak to a variety the same as the attractively landscaped right-of-way. It is designed to recall that the movement of traffice from north to south across the intersect the principal radial mighways leading into Newark and will e-proved the principal radial mighways leading into Newark and will e-proved the principal radial mighways leading into Newark and will e-proved the principal radial mighways leading into Newark and will e-proved the principal radial for north and control part of the Company or attention in the cathering that the company is a single of the cathering to that community, that the Chate Engage Pepartment has not yet made a final sectation in the matter.

Radial Routess

(1) Frelightysen Avenue - Astr Ctreet. This route enters Newark from Elizabeth connecting to hemark Avenue or State Highway 27 in that city. Frelinghuysen Avenue has a capacity of 8 lands of traffic from the city limits to Alpine Street. Feature Alpine Street and Sherman Avenue, the present wants 1: 75 feat or clanes. Building lines should be established along this portion of the street for its eventual windowing to 10% feet. Freelinghuysen Avenue now terminates at therman Avenue. Astor Street which connects Frelinghuysen Avenue with high Street is a marrow 90 foot wide street, one-way south. The southeast corner of Clinton Avenue and Astor Street should be cut book to thraughten out the offset in we existing at high Street, and Astor Street should be cut book to thraughten out the offset in we existing at high Street, and Astor Street should be sidened to 100 feet between Clinton and Shorman Avenues.

- (2) Elizabeth Avenue. This thoroughfare enters Newark from the south, connecting with Broad Street in Hillside. It now has a capacity for 8 lines of traffic between the City limits and Clinton Avenue which is enfficient, and no widening is required.
- (3) Clinton Avenue. Clinton Avenue is an important relief route for Springfield Avenue with which it connects in Irvington. It has a present capacity of c lanus from the City limits to Elizabeth Avenue and a capacity of 8 lanus from Elizabeth Avenue to Broad Street. No winding is required.
- ...) Broad Street Broadway. This is on of the most important radial routes of the City as it leads directly to the heart of the business district, both from the north and south. Beginning it a connection with Highways #29 and #25 on the south, Broad Street extends northward to the City limits connecting with Washington Avenue in Beileville. Fortunat ly when Broad Struct was laid out it was given a generous width and no widening is necessary. Likewise, except for a relatively short distance, Broadway also has ad quate width, but between Seventh Avenue and Clark Street the width decreases from 100 to 66 feet, and between Clark Stre t and Fourth Avenue, it is only 66 flet or 4 lands in width. Between Fourth Avenue and Taylor Street, the width varies from 66 to 100 feet. Building lines should be established on Broadway between Bloomfield Avenue and Taylor Street for an eventual widening to 100 feet. Between Blocafield Avenue and Seventh Avenue a serious bottleneck exists which should be climinated at the same time Bloomfield Avenue is widened. Broadway is a County highway north of Bloomfield Avenue, and that portion between Bloomfield and Broad Street should be taken over by the County so that the contemplated widening of

plocefield Avenu. And the Midming of Broadway from Bloomfield Avenue to Soventh Avenue could be curried out in one operation. Because of the alignment of the street at the location, the future midening should take place on the cest side of Broadway.

- (5) Springfield Avenue. This is one of the most important entri 5 yen the City as it connects with State Highway Rout - 2. and leads to the b roun communities of Irvington, Maplewood, Summit, Springfield, Milburn, and others. In Irvington, Springfield Avenue is a County highway. From the fewark city limits to horris Avenue, the street has a right-of-way wigth of 85 feet, From Morris Aven. to South Orange Avenue, it is only b6 feet wide and can accommodate only .. langs of traffic. The construction of the proposed Route 24 freewa,, Ascrib a previously in this chapter, will obviste the necessity of widening Springfield Avenue which would be an extremely expensive operation as the frontage is almost compacted developed with business property built out to the street lines. From the point of junction with South Orange Avenue to Warket Street, a serious bottle neck exists which should be eliminated regardless of whether the proposed freeway is constructed or not. This portion of the street should be widened from 56 feet to 100 feet. sulding lines should be established between Morris Avenue and South Orange Avenue to provide for a future 80 feet width.
- (c) South Orange Avenue. Leading directly to the heart of Newark from the west, South Orange Avenue is a highly important entry. Fortunately it has a width of 80 feet or 6 lanes from City limits to Ninth Street, but east of Ninth Street the width decreases to 66 feet and in some places is only 60 feet. While this portion of the street need not be immediately widesed, building lines smould be established from Littleton Avenue to Spring-field Avenue to provide for an eventual 80 foot right-of-may width. The

proposed Route 2. freeway will relieve this street of much of its traffic and a fiter 80 foot width throughout its length would be sufficient. South Orange Avenue in a County Highway throughout its length, except for a start part, on extending through South Mountain Reservation which is under control of the Essex County Park Commission.

- (^) Central Avenue Park Place Centre Street. Central Aver.e provides a direct route from the Oranges to the Newark business district and its location makes it one of the most strategic radial routes in the area. The street is a County highway from high Street west and has a 6 lan-, capacity from High Street to West Warket Street and 8 lane capacity from that point westward. Infort mate y between High Street and Broad Street there is only a " lane capacity and as this street acts as a distributor for traffic in and out of the business district, it is important that nor capacity be provided between High Street and Broad. It is recommended that a building line be established along the north side of Central Avenue to provide the eventual widening of the thoroughfare to 8t feet west of Broad Street. Park Place and Centre Street form a part of this route connecting with Milberry Erat. That present intersection of Centre Street, Mulberry Street and McCarter Highway creates a dangerous dituation because of the multiplicity of onflicting traffic movements through the intersection. It is proposed to remedy this situation by providing a new connection bitmeen Centre Street and Mulberry Street to the south of the present intersection. This improvement together with the widening of Central Avenue from High Street to Broad Street is shown in more detail on Plat 8 (Improvements in the Central Business District).
- (8) West Market Street and Market Street. West Market Street and Warket Street connect to make a diagonal thoroughfare luvding from Orange Street near the Emat Orange line directly to the heart of the Newark business.

et. m and to Esymond Bouleverd at a point east of the Pennsylvania Railroad.

The rests varies greatly in didth, ranging from bo fest to 99 feet. New

tillians linia should be astablished along West Market and Mark t Stricts 1

provide for eventual widenings to 80 feet as follows:

Orange Street to Hudson Street High Street to Colden Street Van Buren Street to Madison Street Somme Street to Ferry Street

- (9) Trang Street. Orange Street in Memory and Main Street in Each Crunge and Drange in an important thoroughfare which varies in Midth, ret in Memory. It has a . hand capacity from the City limits to Proam Street. In sum of the fact that this thoroughfare parallels the proposed Route 25-4 frieway no sidenting. All is receivany. The street is occupied inroughout most of its length by the foult track car line of the Public Service Company.
- (I') Bloomield Avenue. This is a very strategically located diagonal rule connecting Newmer with the north-meetern subures of Montelair, Verona and other communities. Its continuation northmest from Verona is State Rigmany 21. It is presently a county nightsy throughout its entire length. The early widening of this street from its present with of 60 to 1% feet is edivisable and plans are now more consideration by Essex County to unsertage t is improvement as a postwar project. It is planned to widen the street frim a point where the Public Service street railway tracks enter west of Branch Briok Pirk to its intersection with Broad Street. As stated previously in this enapter, it is nightly important that the whilening include that portion of Broadway from Bloomfield Avenue to Seventh Avenue as otherwise there would be an erical bottleneck at the entrance of the Newark bisiness district.
 - (11) Raymor Boulevard Lock Street Nesbitt Street. The

amprisent of Raymon. Lo deviri a few years also opened at an intry to the corrier payon. Lock Street and there are no adequate connections from that ment to the west and north. Nesbitt Street was wilened at the time the Mewark Housing Authority developed the James Baxter Terrace Jousing protest and the City has acquired some property for the widening of lock Strect netwern Yewark Street and Central Avenue. It is proposed to make Kayam Li Ro. . ward a contingous burn speed truffic route from the C. . fton Aven.e traffic circle to be constructed as part of the Route 25-A freeway. This improvement involves the completion of the widening of Lock Street from ty means of an ver-pass on Lock Street at that location. (See Plate 9. ints improvement would open up a direct entry to the center of the Newark business district from the western suburban communities. Another improvement which should be made is the re-routing of the present Junway line which comes to grave at the intersection of Warren Street to Raymon's Brul yar., crossing Raymond Boulevard at that point. It should be feasible to attacken that part of the Orange Subway line between Raymond Boulevard 351 Marren Street and Central Avenue, utilizing the existing subway torough "entral Avenue and Lence west of Market Street where facilities now exist for t.rning anto Mark t Street at that point. Raggood Boulevard has ample capacity from Warren Street through the business listrict except between Plans Street and Broin Street. Here the street narrows down to a lane Capacity and because of existing pulldings it will be impossible to increase its width. For that reason it is most important that the Route 2; -A freeway be extended eastward through Harrison to make a continuous thoroughfare for traffic between the Oranges and the Lincoln Tunnel in New York, If

als traffic were liverted at the Clifton Avenue traffic circle to Baymond ballevard by way of Hesbitt and Lock Streets there would be an intolerable extuation in the business district and it sight to necessary to provide some form of double-deck streets to accompdate such traffic. Obviously this would be an extremely expensive and complicate, structure.

Raymond Boulevard is the principal entry to the center of the City om the east and a connection t., the Fulaski Skywar provides direct access . the molland Tunnel. It is proposed to improve this part of Raymon's Bo .. yard by stillzing the old bed of the K rris Canal as an asditional ros way natworn Lockwood Street and the poin where havmon's soulevary and Market Street marge. In adultion to providing lature needs, traffic capacity this improvement, would create an attractive sutrance to hewark from the east as it would be combined with the improvement of a silver front along a portion of the route. Details of the plan are shown on Plate 17. Another situation which needs correction is the connection t. the Pulaski Skyway for east! ound traffic entering from Raymond Boulevard and Ferry Street. This traffic now used Country Street and crosses under the Pennsylvania Railroad by means of a very narr w underpass. A number of years and, plans were developed by the ity Engineering Department to widen this underpass, but for some reason the improvement never was done. The State Highway Department should be urged to complete this improvement at an early date.

(L.) Wilson Avenue. Wilson Avenue extends from Doremas Avenue
near Port Aswark to a convention with Perry Street at Pulaski Struet. There
is a great deal of heavy industrial traffic on this street and its pusent
with of or feet anould eventually be increased to 30 feet. The now milding lines for this future improvement anould be established now.

(13) Ferry Street. The street parallels Baymond Boulevaru throwth the irrobrand Cesting and has a pre-ent wisth of 6 feet except letwen by the streets where it misses to 80 feet. Pulling lines should be established from Baymond Boulevard to McMoorter Street to , revise from an aventual wideming to 80 feet.

East - West Crosstown Routes

- (.) Chancellar Avenue. This street extends in an east and vest intection from Springfiel. Avenue in Maplewood to Elizabeth Avenue in M.wark. The mire street is a County thinmay and in Newark it has a right-of-way width of 80 feet. No widening is necessary.
- (2) Hye Avenue Patson Avenue New Corrictions Mecker Avenue, This routh is insured to invisal act and sections set and southern part of the City and free points west and southeast of the City. The route is not contains as a tangent with and two new connection will be necessary to make it complete. On of these corrections is from the present terminus of Ny, Avenue at Seywour Avenue to a connection with Witson Avenue at Berrim Street. The other is connection is between Wation Avenue at Berrim Street. The other is connection is between Wation Avenue and Necker Avenue attaining from and a model and the between Wation Avenue. The streets comprising this route vary an unital from 60 to 60 feet and new building lines should be established for went as widening to 80 feet. The two new connections cause a right-of-way width of 80 feet when they are built.
- (3) Avon Avenue, Avon Avenue lise between Clinton Avenue, and Springfield Avenue and intends from Springfield Avenue to a connection with Clinton Avenue at Elizabeth Avenue. The street now has a raint-of-way width of 80 feet which is sufficient.

- (...) Park Avinus Crittenden Street. Face Avinus .r a 1 > foot thoroughfare under *n. Satirol of the Educa County Park Correction. Prom last 2. set in high the street in Nowark no creatively issaily published in the street of the street bit it is intensively used by published revenue as. It was no of the most important thoroughfares in the City. The real was a restricted capacity due to the wide grass plots and the plant manages and the stoppins and parking of authorities along the traveled reductive. The study in is not promoned in Education and image than in Howark and register . As once incommenced in Education and image that jurnified facilities to move the off to traveled readers to refer the provision off to traveled readers to return the artists of the most time and the point and Producey to relieve the process considerable traffic to the on that point and Producey stailing Crittenden Street.

 All is at present a narrow thoroughfar when it is a County number for these Street to Electrical Avenue.
- (5) Second Avanue, Georgia Avanue connection to Rullsh. Avanue in East frame and its mentual extension to Springdale Avanue. So on Avanue in East frame at Third othered in Easts and then should see a but it connection affords. Bloomical Avanue at this point. This can be done by culting back its northwest corner of Second Avanue its Third others. Second Avanue on thinses on the cast side of branch Brook Fark to Brooking and teasis of the office of the carticles much traffic. The Freedings of the ordination with the park arevs it carries much traffic. The
- (5) Heller Farkaey. H.H. r Pursony attents from Summer Avenue section of across Branen Brown Park connection, with Frenklin Street in Bloomfuld. From the city limits to Forest Hill Parkaey the right-of-way is 60 feet and

tron fore t hill Farman to Hambland Avenue 150 feet. From Highland Avenue to ht. Fr. sp ot Avenue, the right-of-way is 80 feet. No widening in requires.

(7) South Street - Belancey Street. These two treets constitute of the most important crosstown routes in the eastern part of the City. Insumen as there is a large amount of commercial and industrial traffic using the streets the present winders of old and of feet anould be increase. It is feet by establishing new building lines for future widening. Joseth Street niw terminate at Pennsylvania Avenue where it interfects Britishick Street niw format of a tree's Clinton Avenue, the traffic is force it lines a rather narrow and discontinuous street in this area. Is is recumended that a new connection 80 feet in whith be provided from the intersection of Pennsylvania Avenue, Prinnick Street and South Street to Clinton Avenue at Vashington Street.

North - South Crosstown Streets

(1) Belmont Avenue, Jones Street, Norfelk Street, Chifton Avenue, Mr. Prospect Avenue, Potentially, this is one of the most important highest rate in Newark as it extends continuously almost across the entire visit of the City, connecting Relleville on the north to Elizabeth Avenue near Needwalth Fark. Perform the street, comportant this route new already sufficient wadth but there are certain other improvements that should be snow in the new future. Clifton Avenue extends from Crange Street to Verons Avenue with near it dead-inds. It is highly dos rable to connect Clifton Avenue with Nr. Prospect Avenue at Bloomiteld Avenue in order to resolve heavy traffic from the residential section along Clifton Avenue in Forest Hall and provide a continuous route to Belleville. This improvement should be made at the same time Bloomiteld Avenue is widened and the entire route should be turned over to Essaw County for improvement as a County nichbes, No sidenine in

The auditor the sorth City Losis to Orange from the test in thing right-operation of strong of the feet which is difficient to accompdate a land of traffice, for the tree of Dath Orange Avenue and Orange trust a continuous test foot. From Struct and Jelment Avenue, between South Orange and the field. The true has a midth afficient to a compadit a land of trafficient of elements in necessary. By first building lone and the continuous rights and the first building lone and the variable of Belmont Avenue between reduce Struct and but a Avenue again and the service and orange to the rights of the service and the service and the service and south Avenue when will come to the service at Clifton Avenue and Stoth Avenue when will perfut the first originating in the forth ind well are eith into process materily over the finder approach and took Struct.

(.) Between Street, Parth Street, Proposed History over the Morris Canal, Frankin Street. This route will provide a continuous north and wouth "istemsy free Bedevills to milleste in addition to acting as a crossteen route. It likestee of the Morris Canal right-of-way along the best side of Branch Brook Park will provide a night speed nightesy intracting at retemering Wears from the north and northwest and will enable traffic to reach the cinter of the "it, with a minimum of interference from cross nowements. It is proposed to construct a routeway having a capacity of 6 langs over the alway are occapying the bed of the Morris Care. From the present termina of First Street near Seweith Awenu- to Heller Parkway where a new connection would be built to Franklin Street. Access to this proposed nightsy and it should be previously at Fark Avenue, Bloomfield Avenue and heller Parkway and it should be paralleled by a local service street along the west side of the highest. The carrying out of this improvement would encourage the development of stagnant and mindown proporty near the migmay, this adding greatly to the

takach volter in the society, wet if the relicionate of Sewenth Ave.

. Connect, if a lane is from Lymon Avenue to decree Avenue, her so street. 8 feet also and from Lant's me Avenue to Wavenly avenue if it is feet mine. No sounds else the regained along these ect. as bit of containing the rest of the relate to provide an a so ... so foot width.

- (3) him Street. Migh Street art, as a north and south cross we make fra Riccoff ald Avenue to Clinton Avenue on also serves as a hydrac around the central business lastract. Due to its strategic location, the street solution are not conscity of 8 lanes of traffic. At present the diversion and fine entire the clave in a afficient rist, between inverse unret and Clinton Avenue but new 1.0 foot building line stable established along the remainer of the tropulatione. That portion of the street inco Biocomfield Avenue to the lakeasuma Bailroad should be midened in connection, with a mapping and resing project.
- c.) South Fight Street, Roseville Avenue. Roseville Avenue i. ar apportant or storm street compating Elocatical Avenue with Test warket.

 Street. The present might is sufficient to accomposate or language of the first and or support is neveral. South Eighth Street, sair is a continuance of hoseville Avenue extends southward from Wast Market Street to South Grange Avenue and Central Avenue, and the sufficient between South Orange avenue and Central Avenue, at where building lines as out as extablished along the block between Central Avenue and Linith Avenue where Eighth Street joins Hoseville Avenue.
- (5) Aldine Street, Clinton Place, South Thirteenth Street, New Connection, South Twelfth Street. This route extends from this southern City

limit to west Variet Jirwit all that portion of Twelfin Street a theen control Avenue and West Market "errect is not designated a" a major in resonance. The itreets emprisons the relate vary in minute from 5 to 5 feet and 8 feet. Where building lines should be established along the entire routs. A new connection is needed between South Fritteenth street which is terminates at Woodland Avenue and South Twilfin Street in the block just south of Springfield Avenue.

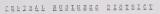
- (e. Grove Street. From Street is an important north and south County typicary, a comparatively short portion of main maintain in hemark. The present right-of-way winth of % feet should be increased to 86 feet by establishing new building times along that portion if the the roughfare which lies in Newark.
- 47. Alexander Street. Alexander Street in Reward in a connecting link between a proposed grossioner mute through East Orange and Irringtor. The street connects with Valley Street and Orange Avente in Irringtom and to hillorest Serrace in East France. Its present width of % f t will around date. Lanes of traffic but 60 foot building lanes should be established for eventual widening.
- (8) Sandford Avenue. Candford Avenue is a County rigosa; naving a preent width of 60 and so feet in Newark in 1 is part of a proposed crosslown route through East, range, Newark and Irvington extending to Springfield Avenue. So foot building lines should be established along that portion of the thoroughfare in Newark.
- (9) F_laski Street Moronant Street. Filaski Street is a nirth and south crosstown route connecting Lafayette Street with South Street through the Probound section. The present capacity of 4 lanes in saffication. Pulanki Street connects with Merchant Street at Lafayette Street.

which intersects Wilson Avenue and Ferry Street.

Miscellaneous Improvements

- (1) New High Level Bridge Replacing Jockson Street Bridge.

 The present Jackson Street Bridge is a low level structure which his reached on age where its mintenance is costly. Eventually it should be replaced by a night level bridge which will connect Fourth Street in Harrison with Wilson Avenus in Newerk. This structure should extend over Enymons on Boulevard, Market Street, the Central Bullroad of New Jersey and come to grade in the vicinity of the intersection of Market Street, Wilson Avenue and Merchant Street. Mona should be provided for traffic to leave and enter the bridge at Aerkot Street, details of which are shown on Plate 10.
- (2, Weshington Street, Mulbyry Street. These streets are all located in and near the central business district and their proposed improvements are discussed in the enapter of Street Improvement in the Central Business District.



CENTRAL BUSINESS DISTRICT

The importance of providing adequat, w nicular accuss and parkin iselists to in the Nowark Central Basiness District has been capitalized incomposit this report. The area has not, significance than a piece of a support of the provides and the cuty's financial selfare depends to a large office of tax removes and the cuty's financial selfare depends to a large office of the strength and stability of control business values. While no tight a semilable in Newark in central business districts of other large municipalities, all shows a tax return far greater than the cost of providing public services and this vaces of income over expense offsits the loss is which take place in the value and thinted districts and costs of public services far outweigh the amount of tax collected.

The presperity of the Newark pusiness district as dependent not only on trade enginered within the corporate limits but also upon that coming from the saturban arise. Obliges it is possible for pursons to reach the centur of the city conveniently and after arriving them, find a place to park near where their business is to be transacted, these pursons will patronize other more accessible shopping centure and eventually there will be a begins on values within the central areas. In order to protect the large investments now present in downtown Hemark, the City is justified in expending relatively large sums for improvements. In the long run, it will be closure to do this than to suffer the inswitable blight and left in values that will occur if a policy of laisson-faire is followed.

Traffic Entering and Leaving the Downtown Area.

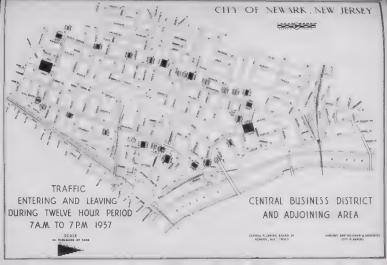
Plate 6 has been prepared to show the number of vehicles that daily ent r the Newark Central Business District. Counts were taken in 1937 by

TABLE I

TRAFFIC ENTERING AND LEAVING CENTRAL PUSINESS SECTION

7:00 A. M. to 7:00 P. M. 1937

Intersection			Entering	Leaving	Tota.	
Broad & Kin	nev		13,662	12,923	26,585	
Mulberry & 1	Kinneyt		- ,			
Kinney			1,092	1,185	2,277	
Mulberr	v		2,345	2,761	5,106	
Mulberry & Walnut		1,598		5,224	6,822	
halberry & Lafayette			2,707	2,069	4,776	
Mulberry &			418	718	1,136	
Mulberry & !			5,682	5,777	11,49	
Mulberry &			-	418	418	
Mulberry &			2,238	1,681	3,919	
Mulberry & :			5,480	7,542	13,022	
Mulberry &			,,,,,,	1324-	-5,	
Mulberr			5,300	4,700	10,000	
Centre	4		4,000	5,000	9,000	
Centre & Sa	vbrook		1,160	1,023	2,183	
Broad & Cen			10,206	13,055	23,261	
Washington			10,200	203000	~	
Washing			5,855	5,623	11,478	
Central			4,057	3,752	7,809	
Washington			1,200	1,200	2,400	
Washington			1,107	1,100	2,207	
Washington & Warren			1,200	1,200	2,400	
			5,040	6,840	11,880	
Washington & Raymond			7,040	1,500	1,500	
Washington & scademy			2,351	1,500	2,351	
Washington & Bank			7,556	₹,961	15,517	
Washington & Market		2,400		2,400	4,800	
Washington & Branford		2,100		2,500	4,000	
Washington & William Washington & Court			4,824	3,466	8,290	
			ti socit	2,400	0,290	
Washington &			£ 200	r 000	20 200	
Washing	t on		6,198	5,972	12,170	
Kinney Total			1,774	2,075	3,849	
		:	101,550		211,315	
		S	UMMARY			
From	Entering	Leaving	Total	Percent		
North	21,361	23,378	44,739	21,20		
South	22,205	21,656	43,861	20,80		
East	24,375	30,737	55,112	26,00		
West	33,609	33,994	67,603	32,00		
	101,550	109,765	211,315	100.00		



th, Department of Puril Cafety in connection with a city-size "raffle our-say of all venicular traffic entering the leaving the bearings listing between 7 A.M. and 7 P.M. of a typical meast-day. For the surpose of this study, the observes district was defined as the area bounded by Kinning Struct, Wannington Street, Central Avenue, Park Place, Central Street and Wilberry Street.

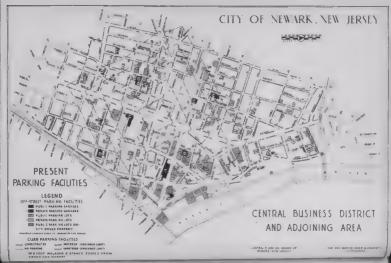
Laring the day, a total of 211,000 v-ducies intered and left this juntom nittrict. Je per cent entered and left from the west; Jo per cent entered and left from the north; while I have determined between the voltage of each entered and left from the south. Table I shows the voltage of each of the interestions on the princter of the business district and mummarizes the totals from all directions.

Insumuch as the bulk of the population of Newerk and all suburbs is to the most of Broad Street troffic in and out of the busines' district is great at from that ilrection. Market Street, Sectral Avenue, Journal of the and Saymond boulevary are the principal entries from the most with larket Street carrying the heaviest traffic.

Broad Street is the dominant entry for both rorth and south traffs.

From the north more than 50 per cent of the traffic entiring and leaving the
finitial as a broad Street. From the south more than to per cent uses Broad
Street. Baymend Boulevard and Market Street hazale ap rounsately the sacc
amount of traffic and between the two of them, accommodat a little lies then
one-malf the total traffic ent ring in leaving from that direction.

From the above figures it is evident that From to treet should be relieved of some of its burden by improving other entries from the north and with. A more even distribution of traffic turougnout the distinct will create a better balanced divelopment and increase values in areas away



for Brus. And Warket Streets which no ar the eminant team of thomas cars. Grater who of all possite entrie so liperate a nor inverfit, toward articular objectives, thereis proceeding inversely mover of and turning within the district.

Parking Facilities.

Paste 7 shaws passent pasking facilities within the Centra. Subnes District and adjoining areas. Information on who of the unwind we served by a fill a strong covering all effectives and core carding a listile. Another survey, still be wall abortly for the purpose of ascritation
the parking mabits and using of stongers patronizing heart's described in
the parking mabits and using a stronger patronizing heart's described in
tall stongs and another curvey will to make to describe the parking requirements of persons wereing in downtone Messack who park tream care all
as or she their care during the day and frive in account. From the revalue of these pending studies, it will be possible to more adequately apprecise the parking plans proposed in this report and in may to district for
the to make some revisions or confications. Fifther replication of
the surveys described above.

Off-Street Parking Facilities.

The area covered in the curb and off-street parking survey is consided by Kinney Street on the South, High Street on the west, the Lackswans Railroad on the north and the Passale River and Pennsylvania jailroad wan to east. Differentiation was made between lote and garages open to the public and those used only by employees of the firms operating the facilities. On the drawing there are five classes of facilities stown by different

TABLE 2

EXISTING OFF-STREAT PARKING FACILITIES
IN THE CENTRAL BUSINESS DISTRICT

		Number of Car Spaces Provided					
Zone No. (1)	Public Parking Lots	Public Parking Garages	Private Parking Lots (2)	Private Parking Garages (2)	Total		
1	255	0	10	0	265		
2	757	525	0	0	1,282		
3	1,499	765	59	65	2,388		
4	2,520	815	387	26	2,748		
5	1,054	239	664	368	2,325		
Totals	6,085	2,344	1,120	459	10,008		

- (1) Zone No. 1 is area within 1000 feet walking distance of Broad and Market Streets. Each succeeding zone is an additional 500 feet.
- (2) Private parking lots and garages are those provided for employees only and in which the general public is excluded.

stanings: Then are: (1 Public barking acts, (2 public parking sprages, ()) private parking lots, (4, private parking garages, and () mublic pa, (4) ing lots on city-owned property.

As nown by Table 2, there are a total of 1(,) @ car space previid an off-street public and private parking lots and mrayers. Thre ur

& public parking lots previcing 6, 85 car spaces or an average of 1;

per lot; 18 public garages provide 2, but car spaces, or an average of 1;

our spaces to each garage; ; private parking lots provide 1,120 car spaces
can average of 3 or spec lot, while there are 11 private parking accordation -5; cars or or average of a cars pur garage. Then are four lots
operating on city-comice property and one parage (for 0 or the Market .

For the purpos. If cetermining the preximity of existing parking facilities to the center of the bisness district (proper administration of the street face of the bisness district (proper administration of the street face that point are snown on this drawing. (Zone Ch. Strong for 1,000 feet from Broad and Market). It will be noted that there are very for facilities in the first zone where property is intensively divided an has a high value. The numbers progressively inspeads in the second, third are fourth zones and decrease beyond the fourth zone.

Curo Parking Facilities.

Table) is a summary of the available curb parking spaces, lifferentiated between these in unrestricted areas, one-half and one neur meter : areas and one neur unmatured areas. It is interesting to note that no parking is permitted on more than fifty per cent of the total curb frontage.

A total of 5,12d ear spaces are provide along the cirts of whi : ,25, spaces are limited to one-half or one hour and 1,27, spaces are unrestricted.

TABLE 3

EXISTING CUMB PARKING FACILITIES IN THE CENTRAL BUSINESS DISTRICT NEWARK, NEW JERSEY

Zone No.		Number of Car Spaces Provided				
	Unrestricted Parking	One-Hour Metered Parking	One-Half Hour Unmetered Parking	One-Hour Unmetered Parking	Other Parking	Total
1	5	151	i8	16	_	190
2	7	259	1	70	4	341
3	71	246	-	221	9	547
4	196	243	·	531	27	997
5	₹ 95	258		1,719	81	3,053
Total	1,274	1,157	19	2,557	121	5,128

Note: There is a total of 223,801 lineal feet of curb parking space in the central business district of which there are 120,796 lineal feet where no parking is permitted at any time.

There is a total of 15,136 car spaces provided both in off-street and curt parking fact..theo. Total estimate: Mally calacity of a . space is as follows:

Typ_ of Space	Space Available	Estimated 8-hour papacity
One hour metered One-half hour unmetered One hour unmetered Unrestricted Garages Farking Lots Other curb parking	1,157 19 2,557 1,274 2,803 7,205	5,785 160 10,228 1,500 4,200 10,807
	1.5, a 3t	32,930

The shows estamates are based on turnovers ranging from 5 per day in the case of meterod on -nour paractey zones to 12 per day in the case of efforce i parking garages as lots. The estamate 3-hour capacity is approximately 5 per cent of the number of various intering the business if which there is no data available or the number of care efforce the area that go on through and is not also to park it is tell via that approximately 5 per cent or 50, 00 of the vehicles wells park if space were available. This indicates a sortion deficienty in paracting space union will become worse as traffic increases in the postwar years.

Future Parking Space Requirements.

Table wis a comparison of parking farilities provided in IC larve American eftices including howark. Existing oar spaces pir 1,700 population of the city vary from 9.3 in Chicage to 58.° in Dallas. Car spaces per 1,000 population in the setropolitan area range from 7.0 in Chicage to 45.0 in Dallas. Newark compares favorably with the other cities from the standpoint of car spaces per 1,000 city population, using excelled only by Dallas and San Francisco. Numark is deficient in comparing our spaces per 1,000

TABLE 4
ANALYSIS OF EXISTING PARKING FACILITIES
IN THE CENTRAL BUSINESS DISTRICT

TEN LARGE AMERICAN CITIES

	Population 1940		Number of Existing Parking Spaces			Existing Parking Spaces Per 1,000 Population			
		City	Metropolitan Area	Garages	Lots	Curb	Total	City	Metropolitan
1	Newerk	429,760	1,249,000 (1)	2,803 (3)	7,205 (4)	5,128	15,136	35.4	12.1
2	Boston	770,816	2,350,514	6,300	6,305	4,000	16,605	21,5	7,1
3	Chicago	3,396,808	4,499,126	11,175	16,345	3,959(2	31,479	9.3	7.0
4	Cleveland	878,336	1,214,943	9,000	16,000	2,500	27,500	31.3	22.6
5	Dallas	294,734	376,548	8,169	6,721	2,349	17,239	58.5	45.8
5	Detroit	1,623,452	2,295,867	7,000	24,200	4,835	36,035	22.2	15,7
7	Los angeles	1,504,277	2,904,596	11,452	28,008	6,250	145,710	30.4	15.7
3	Philadelphia	1,931,334	2,898,644	7,764	13,919	4,800	26,483	13.7	9.1
1	San Francisco	634,536	1,428,525	11,595	6,205	4,800	22,600	35.6	15.8
1	Saint Louis	816,048	1,367,977	6,795	11,469	5.639	23,873	29.3	1 17.5

(1) Includes all of Essex and Union Counties, Lyndhurst and North Erlington in Bergen County and East Newark, Harrison and Kearny in Hudson County.

(4) Includes 1,120 car spaces in private garages.

⁽²⁾ Exclusive of 5,351 Spaces illegally used.
(3) Includes 459 car spaces in private garages.

regulation in the m tropolitan area and 1° wice dea by vieweland, Dallet, fatroit, Los Angeles, San Francisco and Saint Louis. It will be not at that it is haviny region transit nave a reduced need for parxing facilities. These cities include Bouten, Chicago and Philadelphia. If these cities are xeled the parking space provided in hemark in relation to the cities are population is almost the same as the average of the group (35.m in hemark compared to the6 average. If this cities are also excluded from the metropolitan area population comparison, Newark falls far short of the average of the other littles (12.1 in Newark compared to 22.2 average.

Obviously at is ampossible to apply standards of other cities to Memory in determining the future parking needs, but is significant that most of the cities which provide more parking space in resparison to their replication than nown Newark consider that facilities inadequate and are making plans to materially increase them.

Assuming that parking requirements have some relationship to future population and to the future number of motor venicles, a check can be made on the desirable goal to aim for in the future. Table 5 is a summary of the estimated future population of the Newark Estropolitan area and the future expected motor vehicle registration in the metropolitan area. Fopulation stimates are based on the Population Report of the Newark Central Planning Board and an estimate prepared by the Regional Plan Association of New York. Future motor vehicle registration was estimated using the following assump-

- That the present ratio of 2.80 persons per motor vehicle in Essex Country outside of Nowark would decrease to 2...7 persons per vehicle in 1970.
- That the present ratio of 4.82 persons per motor vehicle in Newark would decrease to 4.00 persons per vehicle in 1970.

TABLE 5
ESTIMATED PUTURE PARKING SPACE REQUIREMENTS
IN CENTRAL BUSINESS DISTRICT

Year	Estimated Population in Metropolitan Area	Estimated Number Motor Vehicles in Metropolitan irea	Estimated Car Spaces			
			Garage	Lot	Curb	Total
1940	1,249,000	354,000	2803	7205	7732	17740
1950	1,366,000	406,000	5300	8000(2)	7000(1)	20300
1960	1,523,000	483,000	7650	10000(2)	6500(1)	24150
1970	1,603,000	533,000	8650	12000(2)	6000(1)	26650

In 19,0 there were 50.0 car spaces per 1,000 motor vehicles in Metropolitan Area. Applying this ratio to estimated future motor vehicles gives total number of car spaces needed.

- (1) Graqual reduction in curb parking assumed.
- (2) Number of obsolete buildings removed assumed to be greater than new buildings constructed on vacant sites.

 That similar reduction in pursons per noter websile would ocin in Union Commy and the outer of Patric and Livin Court inclusion in the Wimark matropolitan area.

From Table 5 it is a first the permention of the meaners tropolrelated to a class from its 15.0 operation of 1500, 50 t

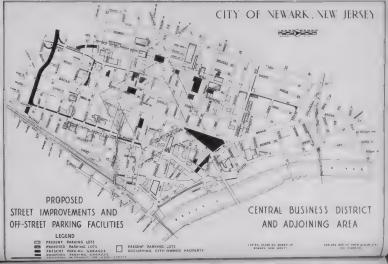
1, 17 it 17 it is an increase of 50 per st. into t in
tration is expected to increase more rapidly, 1... from 350,000 in 1900 to
1, (11 17), a increase it is a sixty in an it increase and
10 on 11 it is a sixty in the form and related out
11 on 10 it is a first for the form and first transfer in
12 on 10 it is a first for the first in a first first in an
acceptant to the table. To because a crass first of picking plans in
an acceptant to the table. To because the proposibility.

The estimated future number of car spaces mouded in the Newark control with so a target on each or first [. The control of the mount of angles), can are lets on car parking. The endies of of area parking privatel, for the bring public. It is estimated to, its entire parking probability of a control of the private control of the angles of the control of angles of the angle

Pro, osos Struct Improvement and Parking Plan.

Ar corron a company plan of strit ingression mis and off streit parking facilities follows and is shown on Platy 8.

In considering to ristinguiship of the natur struct plan to the Control Business District there are three factors with must be given consideration.



First, is the necessary for providing wide and convenient untrice to in, cirtri tires all part of the residual area in an in arthocal testing the second and the second area. There are the second area in an in arthocal testing the second area in an in arthocal testing the second area in a second area. There are the second area in a second area in a second area in a second area in a second area. The second area is a second area in a second area in a second are a second are a second are a second are a second and area. Second area in a second are a second area in a second and area in a second and area and a second area.

Another important factor to ensister in planning the contral area that of mass transportant in. In a city the size of a mark a great daily and inter the busiles observed by any fishered car or but to work in map. The transport into sever, run in retay and quality from the range of its areas to the summary interest so that they all encourage admits may carry and interest so that they all encourage admits may carry and in record as a small tray should be root and as its control areas a later report discuss a transit invitation in that.

A Kinera of erigion of the propose sajor street plan cas be a ern in a principal conjust of the report. Plant denotes the various imrevenent proposed for the otplant of a string the entrue tusiness dis-

Route 24 Fresway.

A proposed grade & pareton thoroughfar gamerally paralleling Syringfield Avenu, and moute 24 terminates at inCart r Highway between Chastaut Street and Oliv r Street. That portion of the free may which skirts It is not been wall to sent danies listed or a set to set it, but yet it, a content to form the time and of the set it is no and of the time and time a

Wastington Street - Plane Street:

It is recommended that these two streets be improved to form the intributor of the forth was said of the bank as institute by italian to two axisting structs for this uppose it wall we are exactly to indicate an indicate an energy program on other. In order to have it two streets function here by they are also joined at the substant and to accomplish this commentum is propose, force to be substant and to accomplish this commentum is propose, force they make the fort Street and Balamin office to Plan. Str. it where it there into of leanington. Street catheau Crawford Street and Brandford Plan. to provide for future whomings. 20 foot building lines should be instablished along the east said, of Plane Street outween Central avenue and Orange Street.

Court Street

Court Sire is sell located to save as a letter to street elemental edge of the restness district. It is proposed to which this their tetween Teanington, Street and Broad Street and remove the fiber between about Street and Trart Street at Aried ty latting but the southwest current of Court Street and Broad Street.

Central Avenue, Park Place, Center Street.

Central Avenue is an important distributor street. Traffic enters the Limits is that from the west on Central Avenue and proceeds a distinctions east of Topad Cirvet by means of four Times and Denter Street. Setween High Street and area Street, Cirtial avenue has a capacity of mily four anough it socialite with new Offeet along to not higher the rate of the traffic capacity of six lange. It is such propose, to extend Park Place from it, niter ect. In title traffic area to a new row estimate Milloury, Street between Contrastration trail Park Streets. The propose connection will enable the westbourn traffic from it loarry Street to avoid the very compileated intersection of McCarter Highest and Center Street.

Mulberry Street

Milerry Street as potentially a very valuable part of the City
street system because of its strategic location as a districtly street along
the east size if the central business district. South of Market Ctroet,
.ecame of inpufficient width the street has not been able to function properly. North of Market Street the previous widening has given the incroupfiare
should capacity but this capacity is reduced to two lanes because of the
founds an triple parking on the street. South of Wirket Street Malberry
Street and Id on widenal to 100 feet. From Market Street to Hamilton Street
the widening should take place on the east said and from Hamilton Street to

Lafayette Street it should take place on both sides.

Lafayette Street to Chestmut Street the west side should be midened.

Although not shown on the plan, the proposed extension of Route 25-A from the new oridge across the Passaic River north of the Lackswenna Railroad provides access to McCarter Highway and Broad Street from the east. The proposed improvement of Lock Street and Nesbitt Street from the Clifton Avenue traffic circle to Raymond Boulevard provides a direct entry to the business district from the west and northwest. These improvemente, together with those described above and the improvements recommended for the radial routs leading to the Newark business district will insure maximum accessibility and the well-balanced distribution of traffic in and around the showlocks counter.

Proposed Parking Facilities:

The proposed parking plan for downtown Newark may be summarized as follows:

- Supplement present parking lots and garages by providing additional off-street facilities for enoppers and other persons having business in the district in the form of open deck type parking garages located as near the center of retail business as possible.
- Provide additional facilities for all-day parkers and porcons transacting business downtown by means of parking lots located along the distributor streets skirting the edges of the business district.
- Install additional perking maters on str ets convenient to retail shops where unmetered limited time parking is now in effect.
- 4. Extend "no parking" restrictions on streets where readway capacity is limited and traffic is heavy.
- Strictly enforce all parking regulations to insure utilization of eff-street facilities and maximum turnover of spaces.

 License all parking lots and prescribe minimum standards of uses, location if entrances and exits, surfacing and fencing.

The number and location of proposed parking garages and lots shown on Plate 8 were determined in accordance with the estimate of future needs outlined previously in this chapter and a careful study of possible sites. The program is designed to be carried out over a twenty-five year period by private enterprise in cooperation with the City. The City's participation in the program should be limited to acquisition of sites and control of their development. By exercising the right of eminent domain sites may be assembled and then leased to private operators under an arrangement that will insure the retirement of bonds issued for the land acquisition and the payment of full taxes. It may be necessary to secure state legislation to authorize such transactions, such as has been adopted in several states in recent years. This legislation should be broad enough to until the City not only to acquire and lease property to private operators but also to construct and operate its own facilities if private enterprise is unwilling to undertake these needed improvements.

The proposed system of new off-struct parking facilities consists of four open-dack three-story parking garages, one two-story underground parking garage and twenty parking lots. The garages would provide 1,44,0 car spaces and the parking lots 3,500 car spaces, making a total of 7,800 naw car spaces Adding these to the car spaces now available in parking lots, garages and at the curbs, a total of 23,500 car spaces are provided which is approximately the number estimated to be meaded in 1960.

Financial Considerations:

- A. Military Park Underground Garage.
- It is recommended that negotiations be entered into with a private

operator to lasse the property for the construction of a two-story undergrand parking garage that will accommodate approximately 1,600 cars. It is entirely feasible to use the park for this purpose and at the same time preserve its attractiveness as a beauty spot in the downtown area. The park can be restored after completion of the underground construction work no was down in the case of Union Square Park in San Francisco.

The Union Square Garage in Sun Francisco was privately financea by issumers of preferred stock to the extent of \$600,000 and a loan of \$850, 00 from the Beconstruction Finance Corporation secured by a first mortgage on the building. The city was given 100 shares of common stock (the total issue) is paid \$5,000 per year runtal and receives \$15,000 annually for taxes. At the expiration of 25 years, when the preferred stock is retired and the loan has been paid off the building becomes the property of the city.

Because of the exceptionally good location of Military Park in respect to retail stores, hotels and office buildings, its use for parking purposes should prove financially sound. Some similar arrangement to that worked out in San Francisco should be undertaken in Newark.

Estimates have been prepared on the cost of acquiring land and constructing the four open type garages at the locations shown on the plans. Estimates have also been made of the annual operating expenses and income. These estimates indicate that the proposed garages can be operated at a profit without public subsidy.

In estimating the costs, three story open-type garages were assumed. Indicests were estimated at assessed value plus fifty per cent while construction costs were estimated at \$1.2) per square foot of floor area. Car orgacity was estimated on the basis of 200 square foot of floor per car estage. The following instantions were mide in estanting annual operating and financing costs. Operating on 124 hour day basis the gar gas will require 16 amployees for eich 200 car spaces. Operating any mass, ancluding light, water and nost, will be \$26.00 per car spaces per year. Those at the ret of \$5.16 per one hundred dollar valuation will be poid on the total cost of the basidang. Amortizing the cost of the improvement in twinty years will require in Annual payment equal to 1.12 per cities the investment as assired. But on these escaperions the unital costs per car space for operating and financing the garages rang. From \$173.00 to 6177.00. A cased to cost per car space per day, the range is from \$0.47 to \$0.50.

In estimating funnel income to be derived from operating the garages a very conserviting turnow, of 1.5 per ere spece per day we seed. Rates of \$0.25 for the first hour, \$0.35 for two hours and \$0.7° for all day parking were used. These rates result in an exerge raven, pure a spece per day of \$0.57. Conservative estimates were also made on income from sale of gaseling and oil and for weaking errs. Thuse estimates indicate that the total annual income per car space for day will be \$0.6, for all garages which is substantially higher than the estimated daily cost per car space of \$0.50.

While no estimates have been made on possible revenues derived from rental of store buildings on the first floor of these structures they are so lected that retail shops collo accupy the frontage on the principal streets, thus increasing the angual revenues.





Details of Proposed Improvements

NEWARK SECTION OF THE PROPOSED FREEMAY CONNECTING THE STICKEL NEADRIAL BRIDGE AND NORTHFIELD ROAD IN WEST GRANGE

Plite 8 shows the suggested development of the approaches to the new hillism A. Stickel 1 emerial Bridge and the proposed frowry connecting to these approaches at Clifton Avenue from the west. The proposed improvement is divided in three parts as follows: (1) the system of runps connecting the bridge with keCerter Highery and Broad Streen, (2) the proposed traffic interchange at Clifton Avenue, and (3) to, general location and design of a frowery between Clifton Avenue, and the East Orange city line.

The first setting of this improvement his been under consideration by the Planning sound since January 1944, and his been the subject of a special report artitled "a Preliminer, Report on Plans for the Actension and Enlarged Approvehees of the New Fessaic River Bridge". A brief resum of this report follows:

Shortly after work had commanced on the comprehensive plan of Nowrk, the New Jersey State Highmay Depriment rule sed their plans for the new Pressic River Bridge and its approaches on the Nowrk, the Planning Borrd understook a study and analysis of the proposed bridge and its approaches to determine how they would fit in with the city's plan for traffic and future streams improvements.

This analysis indicated that there were a number of important matters which require close study on the part of the Flanning Bord. These were concerned with the location and design of the ramps connecting the bridge structure with Broad Street and McCarter Highway and the west in terminus of the bridge approved structure. Because of the complication engineering problems involved; was accided that the Planning Borrd would prepere an alternate design more nearly fitted to the needs of Newark. This design was prepered and the above mentioned report submitted to the Board of City Commissioners on Cetober 25, 1944.

Numerous conferences have been held between the Planning Board and
the State Highway Department in an intempt to resolve the differences in the
two plans. As a result of these conferences, the State Highway Department
made certain minor rivisions of their plan, and legislation was enceted
extending Route 25—A to Clifton Avenue from its original terminus west of
High Street. As a result of these conferences, it was decided to prepare
models of the two pluns, and ifter completion of the models submit them to
the public for discussion and suggestions. This was done and several public
mackings were held during the months of July and August 1945.

From the Planning Board's report the location of the proposed bridge makes it potentially a vital link in the highest plan for Newark and the matropolitan area. For that reason studies were made to determine the most appropriate location of a connecting highest between the end of the bridge approach at Clifton Avenue and the western suburban communities. In the course of these studies it was decided that there should be a traffic interchange at Clifton Avenue to parmit traffic originating from the north and west either to proceed eastward over the bridge or to recent the downtown section of Newark as quickly as possible. Briefly, it is proposed to construct a traffic circle in the vicinity of Eighth Avenue and Clifton Avenue which would join the approaches to the bridge, Clifton Avenue, Norfolk Street, Nesbitt Street and the western frommy extension. Through bridge traffic

would cross over the circle by means of an elevated attricture and this would not become mixed up with the traffic movements on the surface. It is planned to widen Lock Street, between Seslitt and New Streets, and construct an overpass across Central Avenue, so that traffic destined for downtown Norwark could reach Baymond Boulevard at Narren Street with a minimum of interference. If the highway is extended westward from the traffic circle at Clifton Avenue, opportunities will be afforted for convenient movement of traffi; from all parts of the northern residential section of Newark and suburbs to downtown Newark and to New York over the new bridge. It is also proposed to connect Clifton Avenue to Mt. Prospect Avenue at Bloomfield Avenue, thus providing a continuous morth and south highway from the suburban area north of Newark to the Clifton Avenue traffic circle. It is also proposed to improve and widen Norfolk Street providing a circul connection with Belmont Avenue to Elizabeth Avenue and Frelingaugeen Avenue, thus completing a continuous north and south processom highway through Newark.

The proposed western extension of Boute 25-A to Clifton Avenue follows the general location snown on Flate 8. The Newark section of this proposed freeway consists of an elevated structure crossing the Clifton Avenue traffic circle, the Lackswanna Bailread, Orange Street, First Street, Second Street, Third Street, Fourth and Fifth Streets coming to grade at Sixth Street. West of Sixth Street, the highway is depressed and will go under Roseville Avenue, Market Street and Fourteenth Street. It is planned to close certain intervening streets such as Second Street, Third Street, Fifth Street, Sixth Street, Seventh Street, Weith Street, Sixth Street, Seventh Street, In most instances, where local streets are to be closed, they will be joined together along the freeway to form a local service road parallel to the freeway. In order to facilitate pedestrian movements, pedestrian underpasses will be provided between Scond

Street and Third Street and an overpass will be built at Sixth Street.

Points of entrance and exit are limited to important cross-thoroughfares including Roseville Avenue, the traffic circle at Clifton Avenue and Twelfth Street. West of Market Street, Could Avenue is utilized as a local service street and a similar facility is provided on the southside of the freeway. Traffic wishing to leave the freeway may do so at Twelfth Street and thus reach West Market Street near Sussex Avenue. Traffic may also enter the freeway by means of Gould Avenue at Twelfth Street. Interachanges are pommitted at Roseville Avenue for southbound traffic on Roseville desiring to proceed with on the freeway and for northcound traffic on Roseville Avenue and Saventh Street resiring to proceed castward on the freeway. An exit ramp for westbound traffic to also provided at Seventh

Traffic desiring to proceed to downtown Newark may leave the freewey and proceed via Nest Market Street or Sussix avenus or may continue to to Clifton avenus where ramps are provided to connect the clovated portion of the freeway to the traffic circle and hence to downtown Newark via an improved Nesbitt Street, Lock Street and Raymond Boulevard.

The freeway is sesigned to accommodate three moving lanes of traffie in each direction and will require a right-of-wky varying in width from
270 feet to 90 feet where the elevated structure cross,s the City Subway and
the Branch Brook Park, Southern Division. The copress d section of the freeway requires a maximum right-of-way width with local service streets along
the side. Typical right-of-way widths and sections are shown on the crawing.
In most instances, the elevated section will be of earth fill with landscapad
side slopes as shown in sections I.I. and K.K. Where the structure is to be
built of concrete its section is as shown in section J.J. depressed sections

Table 6

COST ESTIMATES FOR APPROACHES TO WILLIAM .. STICKEL BRIDGE, THE PROPOSED WESTERN EXTENSION OF ROUTE 25-1, STREET AND RAILFOAD RECONSTRUCTION AT BROAD STREET AND LACKWAMMA RAILFOAD, AND IMPROVEMENTS OF LOCK STREET.

(A)	Bridge Approaches - Boyden S 1. Construction Costs 2. Land Acquisition Costs 3. Damage to Improvements 4. Acquisition Expense Total Cost	8755,550 772,650 84,308	1,612,508	\$3,394,5
(B)	Extension of Route 27-4 - 800 1. Construction Costs 2. Land Acquisition Costs 3. Damage to Improvements 4. Acquisition Costs Total Cost	\$729,675 1,647,750 115,342	£3,091,000 2,492,767	\$5,583,7
(C)	Street and R.R. R.construction. 1. Construction Costs 2. Land acquisition Costs 3. Damage to Improvements 4. Acquisition Costs Total Cost	\$79,500 \$4,150 4,647	138,297	\$414,697
(D)	Widening Lock Street and Cent 1. Construction Costs Grade Separation 2. Repairing Lock Street, No Warrom 3. Lend Acquisition Costs 43,800 sq. ft. @ \$300	\$188,400	\$208,042 131,400	\$339 .4
	Grand Total			\$9,732,4
Tota	l Cost of Construction	\$5,	357,442	
Tota	l land and improvements	4,	374,972	

of the freeway would be provided with landscaped side slopes as shown in sections N.N. and P.P.

Provisions are made on the freeway to accommodate local and interurben bus lines and loading and unloading facilities are planned where crosstom lines intersect the frameway, for example, at moseville with o, where the freeway is depressed, loading platforms have been provided and connected to Reseville wrends by stairways, at First Street where the frway ir elevated, loading and unloading platforms are provided on the clivated structury and stairways lead downward to First Street. Similar facilities are provided at the Cliffon warmer leaffic Circl. so that has passengure on transfer at that point.

<u>Estimated Cost</u>. It is estimated that the total cost of the Laprovan arts snown on this plate will be \$9,732,000. The project is divided into four sections, and the estimates for usen section are shown on Table b.

Construction costs were estimated from a datalog broadown of materials and labor, while land toquisition costs were estimated by applying a factor of 1.5 to the total assessed value of land and improvements taken. To those estimated land costs were account land application cost of the lend and improvements.

PROPOSED IMPROVEMENT

OF RAYMOND BOULEVARD AND MORRIS CANAL

The main approach to the city from the east and from the Pulaski Skyway is via Haymond Boulevard.

it the present time, traffic from Pulsaki Skyney uses the exit reap which terminates in lockwood Street, approximately 150 feet north of Rrymond Boulevard. It is proposed to utilize the right of way of the old Morris Conal between the intersection of Lock Street and the Pulsaki Skyway exit roup for a rondway paralleling Raymond Boulevard to a point near the intersection of Raymond Boulevard and Market Street.

In addition to providing more expecity for test and west traffic in the Ironbound section, the proposed improvement would also include the development of a river front park between a point near Brill Street and the Jackson Street Bridge. Eventually the property lying between the Morris Canal and Reymond Boulevard should be acquired for park purposes, thus making the new Reymond Soulevard c wide dual lane perkway. This would provide an exceptionally attractive entrance to the city from the east.

Plate 10 shows the proposed improvement in two sections. The first section extends from Lockwood Street to Asdison Street while the second section continues westward to the intersection of Raymond Boulevard and Market Street.

The present Raymond Bolloward would remain as it now exists except for additional tree planting. The bod of the Aorris Canal would be improved with a readway 40 feet in width corresponding to the present width of Raymond Bouleward coast of Market Street and between Lockwood and Brill Street. The two readways would be separated by a park strip approximately 135 feet in width. This intervening area is now partially wecant and

SECTION 2 OF BOULEVARD AND MORRES CANAL FROM ----LOCKWOOD STREET TO MADISON STREET SECTION I OF PROPOSED IMPROVEMENT OF RAYMOND BOULEVARD AND MORR & CANAL LOCKWOOD STREET TO MAD SON STREET partially occupied by various commercial and industrial buildings, non, of which would be unduly expensive to acquire. Next of Brill Strost, the two rodds ye morg, and form a dual line night y separated by a 12 foot synss alot.

The Essue County Perk Countsion and the City of Newerk now own prestrictly all if the riverfrent property boths in the Jackson struct Bridge and brill struct. In parch to an outline of line along this part if the riverfront and bear established some distance out from the present bone. It is proposed to subthers this a cate in, fill in the land back of the buildhord and construct a promumed after the subthers that subthers the first substance of park land both to fit substance in the proposed rought and the river's edge. The proposed rought is the significant of the proposed rought and the river's edge. The proposed and by planting trees along the age of the promunde and praiding grassian average of the proposed.

The proposed improvement is a unjer tip of rowithlising the eastern park of the city. It is coordinated with plane of the Newerk Housing authority for constructing the Francian D. mossewoll Homes Housing Project at Chapel obrect and a possible intergenent of that project item to the cost or work of the project now under construction. Also there is, two parks fronting on the north side of Reymond Boulevard namely: River Rank and Hayes Prik East.

It is proposed eventually to runited the \$\frac{1}{2}\$ choose street Bring, by a high level structure which would cam to grade near Wilson avenue and Ferry Street. Provisions are made under this plan to provide range connecting the bridge to Market street to accommendate southbound brings traffic desiring to reach demotions Nomerk or to provide a table Baymond Baulevard. ... ramp is also provided on Market Street for traffic desiring to you to Market Street.



The proposed improvement can be carried out over a period of years in three main steps: (1) building the new rotate y in the Aurica Cheal right of way; (2) developing the riv rivent part and (3) acquaring and developing the property lying between the Marria Canal and Rayme and Builevard.

PROPOSED EXTENSION OF HOUTE 25-% TO NORTHFIELD HOLD IN WEST ORLINGE

The construction of the proposed deat and work from ay from the Posssic River to Mearing experiment limits has been discussed in a previous chapter of this ropert (see Picte 9). Plot 11 shows the general alignment of the proposed rout from the Possic River to its commencion with Mirthfuld Road in West Orneg. To plan has been co-cannoted with the Jereot Plans of Rest Orneg, orneg, and best Ornegs as well a Sanck County and official approved of the general location of the rout has been given by the planning agencies and governing a data of the turn officeted municipalities.

In East Orange, inn aropeod rout, ext. an incomers from the Nomerk corporate limits along Sussex evens to Grow. Street where it curves slightly to the south and cresses what a Perkwy between Chestnat Street and Control evenue. From that point, it highery stands to the northwest extending under Mann evenue, enlington Street, Chastant Street, Supera Avana and Halated Street. Intervaining local streets are to be closed. .ecose to the highway will be provided at Oraton Parkway, Shapera evenue and at Evergreen Place. at Evergreen place, the highway peaks under Harrison Street and enters Grunge near webster Place. Through Orange, the highway will be depressed, aromaing under all of the intersecting cross streets. An interchange is provided at Centre Street and the freeway. The proposed freeway will cross under the Lockmanne Sallreet in their a traffic circle at South Jefferson Street in last orange line, and then extend westerned to

connect with Whittingham Place and Northfield Road.

While no cost estimate has been prepared and no detailed studies made as to right-of-way acquisition costs, the proposed location has been cole ted as the most advantageous to the various communities from the stank-point of accessibility and service.

Responsibility for carrying out this improvement lies with the State Highway Department which will make final decision as to design and location. The proposed route is ouggested as one most nearly neeting the requirements of the various communities and has been drawn to give the State Highway Department the benefit of studies made by these communities.



DEVELOPMENT OF THE PLAN

It is customary practice in sost American cities, including Newark, to assess the cost of making local street improvements such as grazing, paving and curreng to the adjoining property owner. This precedure is legical as the streets provide access for property.

When it becomes necessary to widen a street or to improve it with heavier pavement because of an increase in through traffic it becomes unreasonable to assess the full cost of such improvement against adjoining property owners. Some part of the total cost should be borne by a public agency. The amount depending upon the circumstances existing in each individual case.

The opening or wisening of a street in order to meet growing traffic needs frequently chances the values of property adjoining the improvement or in the vicinity thereof. This is particularly true of business frontage whose value is largely dependent upon now accessible it is to the customer. In Newark, the law provides that, where it can be shown that property will be benefited by a street improvement it shall pay its share of the cost in accordance to the benefit received. The entire cost may be assessed against property where benefits to that extent are found or any pureomtage of the cost may be assessed, the remaining portion to be past by the City as a whole.

This is a fair and equitable procedure which has worked well in the past and will make it possible to carry out a reasonable street improvement program in the future without unduly burdaning eith.r the property owner or the City. Daring the depression of the 1930's many cities were engaged in street improvement programs in carrying out which benefit assessments had been levied against many property owners. With the collapse of the real estate market it became difficult, if not impossible, for the owner to pay these assessments. Relatively little work of this nature has been undertaken in recent years because of this fact and because of war conditions.

Public antipathy toward carrying out future improvement programs by benefit assessment method should not be permitted to force the City into the position of underwriting the entire cost of such improvements. It would be impossible to finance any substantial and necessary program in this manner. Regular procedure through the Board of Local Assessment under existing state laws should be athered to and no attempt should be made to arbitrarily silocate any definite proportion of th; cost to the city at large.

In Nesark the city's snare of the cost of making corrective improvements or carrying out new street programs is mut by cond issues. This is a satisfactory mothed of financing where the life of the bones does not exceed the life of the improvement and when interest and amertization costs are within the financial ability of the city to pay without creating an unduly burdensome tax rate. In view of the fact that increesed expenditures undoubtedly will be necessary to meet post-war traffic needs as well as other governmental problems, and in view of the fact that the city has a relatively high conded debt and tax rate, it is doubtful if an essential public works program can be financed without tapping sduitional sources of revenue.

In New Jorsey a tax is levied on the sale of gasoline and a license fee is charged for the use of each motor vehicle. Proceeds from these taxes accrue to the state and are expended for highway improvements on a statewide basis. While the state highway system is far from complete and needs modernimation the greatest unsolved traffic problems exist in the metropolitan areas of large cities such as Newark. Despite the fact that a large proportion of the state's highmay revenues are derived from citizens of Newark and Essex County, only a relatively small amount of these funds have come back to the community in the form of highway improvements.

In 1941 the State of New Jersey collected approximately \$50,500,000 in gasoline taxes and motor vehicle license fees, divided almost equally between the two sources of revenues. Based on automobile registration it is estimated that approximately \$10,000,000 of funds originated in Essex County and approximately \$5,220,000 came from Newark. During the same year the State expanded a total of \$683,000 in Essex County on highway construction and maintenance and made an additional sum of \$650,000 available.for highway work in the form of direct County aid and direct Township and Borough Aid. In other words, out of \$10,000,000 derived from Essex County, \$1,330,000 or 15.5 per cent came back in the form of direct expenditures or grants. In 1943 this percentage was 21.5.

Coviously, this an inequitable situation which needs early correction.

In Illinois, for example, the proceeds of all gasoline taxes and license fees are allocated 33 per cent for extension, maintenance and operation of the primary system, 33 percent to counties and 33 per cent to cities; each city and county being required to maintain an uptodate major highway and street program upon which all such funds must be expended. Consideration should be given to enactment of similar legislation in New Jersey.

Certain highway improvements have been made in Newark by the State
Highway Department, notably the McCarter Highway and State Route 25. Other
improvements have been made in Essax County and numerous future projects are
planned for Newark and vicinity. These are all beneficial to the City but
under present laws there is no way that state highway funds can be advanced

to Newark for use on streets under the city's jurisdiction.

By agreement, Essex County has taken over certain streets in the City of Newark and has assumed responsibility for their improvement and maintenance. It would not be wise to extend this policy immediately but there are certain Newark streets which are continuations of improtant county highways and logically form a part of the county highway system. In these instances it would be good public policy for the City to agree to turn the derived row to the County. While a large percentage of county funds are derived from Newark taxon ways.

In recent years the Federal government has increasingly recognized the urgency of alleviating traffic congestion in urban centers and legislation adopted in 1944 provides funds for this specific purpose. These funds are to be expended by the State on urban streets which are part of the Federal Aid System and to the extent that such funds are made available and are expended in Newerk street improvements they will be berefisial to the city. It is estimated that under this legislation Newerk is entitled to a minimum of approximately \$4,720,000 of State and Federal funds to be expended for highway improvements in the city over a three year period beginning in 1946.

BUILDING LINES

The Mejor Street Plan calls for the eventual widening of many Newark streets. Prectically all of these streets are built up with structures, some of them on the street line and others set back varying distances. Many of these buildings are old and will be replaced by new structures in the near future.

When a street is widened or extended the most expensive part of the improvement is the cost of acquiring the needed right-of-way. This is

especially true where land is improved with buildings which must be completely or partially razed. Any procedure that will reduce this cost will be a substantial contribution toward carrying out the street plan.

New Jersey law provides a method by which it is possible to require all new buildings to observe the future line of the street in the case of a future widening so as not to be created in the bed of a future street.

The Municipal Planning Enabling Act, Chapter 40:55-1 to 40:55-21 sets out the procedure for adopting a street plan and an official map on which present and future street lines are shown. The Planning Board may adopt the Master Plan in part or it may adopt a major part thereof, such as the Major Street Plan. Following such action, the Board of City Commissioners may adopt an official map by ordinance and then in the future no permits may be issued for any building in the bed of any street shown or laid out on the official map. Provision is made for taking care of cases of unusual hardship by action of the Board of Adjustment. As this is a police power regulation no compensation is paid for observance of the future street line.

Building lines on individual streets have been established in Newark in the past but such lines have not been laid down in accordance with a comprehensive plan of street improvements. For that reason they have not been entirely successful.

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